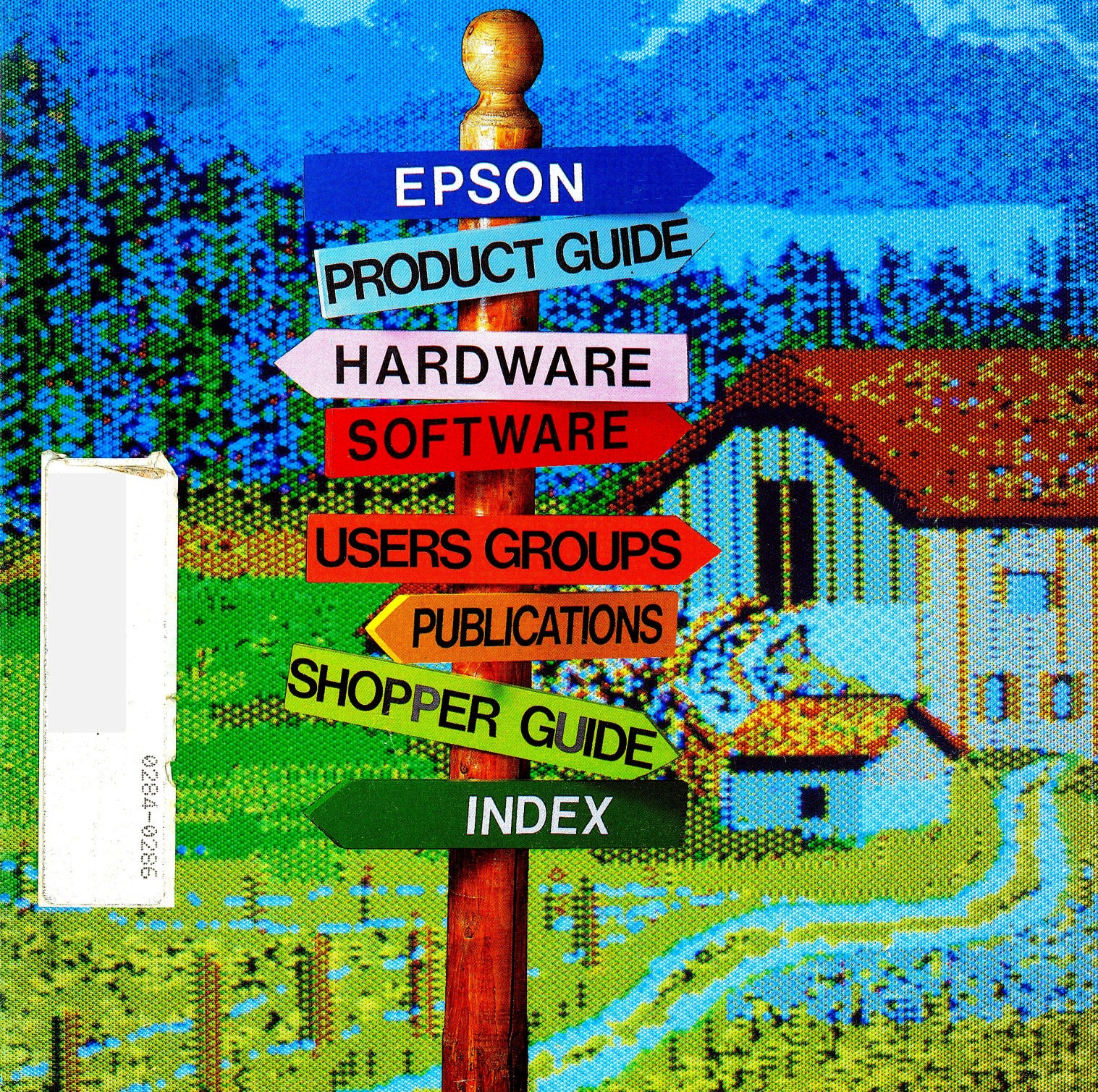
EPSON CONNECTION

$ 6.00

1986 ANNUAL RESOURCE GUIDE

Devoted to Epson Desktop and Portable Computer Users



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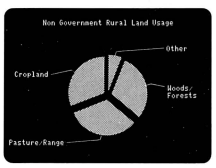
Epson announces the last thing you'd expect in a personal computer.

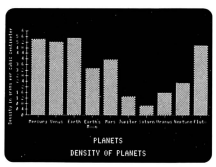
Permanence.

Introducing the Epson® QX-16.™ The computer that flies in the face of obsolescence. The computer you can look forward to productively using for years and years. Possibly your entire career.

No more worrying about software that won't work with hardware. Or technological advances that leave you behind. Or outgrowing a computer you've hardly used.

In short, no more worrying about obsolescence.





Valdocs® 2 is one reason. This unique, integrated software package from Epson, worth about $495.00, comes free with the QX-16. It includes a fast, easy-to-use word processing system. An excellent spreadsheet with integrated graphics. Complete electronic mail capability. A convenient calendar/scheduler. And more.

And it performs all this in plain English.

You may never need more than Valdocs 2 and its integrated capabilities, because you get so much power with so little effort.

However, you can also run the most complicated software, too.

Because like the IBM® PC, the Epson QX-16 runs MS®-DOS programs.

But, unlike the IBM PC, the Epson QX-16 also runs CP/M®-based programs. All of which gives you real freedom of choice.

You can run the most asked-for business programs, such as Wordstar,® Lotus 1-2-3® and

The QX-16 includes

- *512K RAM*
- *2 quad density 720K floppy disk drives*
- *Exclusive Valdocs 2 Software*
- *12" high resolution Monitor (640 x 400 pixels)*
- *IBM PC video emulation board*
- *RS 232-C and parallel ports*
- *3 expansion slots*
- *MS-DOS 2.11 plus CP/M-80 B2.26 operating systems*
- *GW-Basic*
- *1 year warranty*

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SuperCalc 3.® And you can also run almost anything written for the IBM PC, along with the thousands of CP/M programs the PC can't touch.

You'll get 2 quad density 720K floppy disk drives. A high resolution 640 x 400 pixel monochrome monitor. 128K resident video memory. A CMOS Realtime clock/calendar. And option slots for some real options.

Speaking of which, the Epson QX-16 comes standard with many features IBM sells as options, such as the dual disk drives, 512K of RAM and a high resolution monitor.

(And by the way—should you already own the Epson QX-10,® you're in luck, too. Just drop by your Epson dealer and pick up your specially priced Valdocs 2 upgrade kit. You see, we really *do* believe in permanence.)

Let us know what you think.

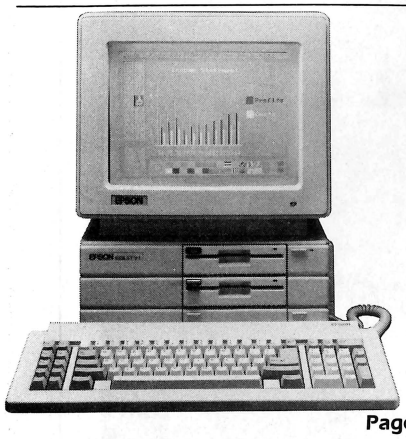
Call us for more particulars at (800) 421-5426. If you live in California, call (213) 539-9140. And wherever you live, be sure to drop by your nearest Epson dealer for a demonstration.

It'll only take a little while. And it will last a long time.

EPSON
QX-16

EPSONCONNECTION

DECEMBER 1985 VOLUME 3 No. 11



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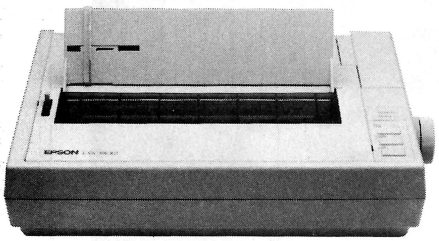

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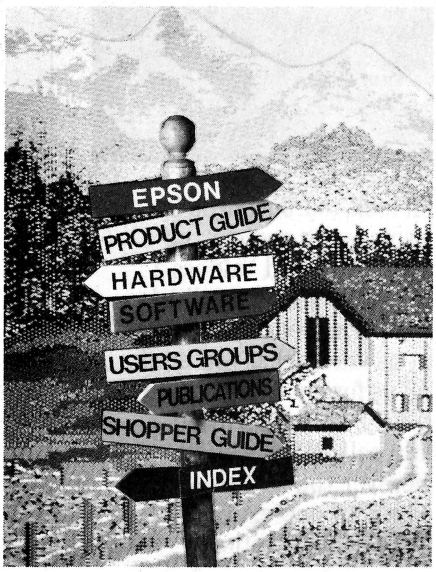

ABOUT THE COVER:

The cover background is artwork created with Valpaint by June Hamm of Rising Star Industries. The foreground prop was created by John Clouse, Carolyn McCarthy, & Chris Wills.

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Introduction

Welcome to the 1986 Resource Guide. This is the second resource catalog put together by The EpsonConnection Staff. We hope this edition will serve as a useful resource for you through the year ahead. This special guide replaces the normal December issue of our magazine for our subscribers.

The EpsonConnection began it's existence in the summer of 1983 as a bi-monthly newsletter. It grew into a glossy, color, monthly magazine one year later, and has continued through the present. We are strictly a subscriber based magazine, with one free copy sent to each Epson User Group and Epson dealer. We are very pleased with our international scope, and are circulated to forty-five countries around the world. The EpsonConnection, Ltd. remains an entirely independent entity from Epson Corporation and Epson America, Inc.

We owe our survival to the subscribers, user groups, dealers, distributors, and advertisers. We would like to thank all of you for your continued support and wish you the best through the coming year.

We are pleased to announce a contract has been signed with CompuServe, Inc. for The EpsonConnection to take over the responsibility of sponsorship of the EpsOnLine special interest area. CompuServe is an "Online Information Service", available to computer owners who have modems. EpsOnLine is a special area set aside for Epson owners to communicate with each other on CompuServe. A special offer is available to you in this issue, so be sure to check it out.

Epson America, Inc., introduced two new computers and printers at the Comdex computer show in November. The EQUITY II and III,are IBM PC/XT and AT compatible computers. The new printers, the LQ-800 and LQ-1000 are both 24-pin printers, which set a new resolution standard for dot-matrix printers. They produce letter-quality output at 60 cps (draft mode is 180 cps), and cost under $1000. See the introductory write-ups in this issue for more details on each.

With this announcement by Epson America of a new line of MS-DOS computers, users of the QX-10 and QX-16 computers are voicing their concerns about being abandoned. What lies ahead for the QX owners? Chuck Champlin, (Epson America User Group Support Program) commented the following:

"It is true that the Equity series of computers and the MS-DOS operating system will be our primary new arena. It is also obvious that Rising Star Industries will be carrying on the Valdocs torch, though independent of Epson. Epson users have already seen many new developments of interest and use to them.

But Epson is NOT abandoning its QX-10 users. Of course, Epson's high-quality service and parts will be available for many years to come. But most importantly, we will be continuing the User Group Support Program for QX-10 owners."

Chuck outlined three ways groups can expect support; through the announcement of new products from Epson and third parties, the release of previously considered confidential information on the QX-10, and continued assistance for owners. "Be assured, we are committed to helping users continue to use their QX-10's productively!"

As we welcome the new 1986 year in, it is true we can look over our shoulder to 1983 and say "I was sold a promise, easy to use, fantastically fast, integrated software with a computer carrying a good name and reputation." Everyone agrees the computer is excellent hardware wise. The Valdocs software has raised a ruckus which will long be talked about. What happened to the promise? Most users will agree "It was certainly easy to use, but the program errors have been the problem." Unfortunately there are still errors in the newest Valdocs 2 and the Valdocs + release.

How are users coping? "I use my computer every day to type my court transcripts 50 to 60 pages long, and leave it printing it out all night, get up in the morning and go off to court with the print out, it's just marvelous!" "Every time I started writing something I was so afraid I would lose it all that I finally went out and bought a typewriter." "I use Valdocs for everything." "I was so frustrated, I bought another word processing program, one you can at least count on."

There is rarely a complaint about the hardware or computer itself, we in fact have an excellent computer in both the QX models. There has been a large improvement made in the Valdocs + software by Rising Star Industries, and there is a generous amount of CP/M and MS-DOS software available for the QX computers. If you are considering purchase of a Titan QXPC board to make your QX-10 MS-DOS compatible, then act soon, the supply is expected to be gone by February, and Titan will no longer be making them. Users desiring high quality color graphics systems should take a look at our front cover. The background photo was photographed from an Epson color monitor and the QX-10 (artwork courtesy of June Hamm of Rising Star Industries) with the Valpaint software.

Looking into my crystal screen I will forecast a need for users to: be in contact with other users, read your publications, attend user group meetings, use online services or call the support numbers. This is your continued support base and largest resource available. Make use of it, it is indeed available to you.

HAPPY NEW YEAR to all of you from all our staff.

EPSON EQUITY COMPUTERS

Epson America has introduced their new line of desk top computers for 1986. The first of the series of IBM PC compatibles was introduced in September 1985, called the EQUITY I. The chart provided here shows the various basic configurations for the EQUITY series. The EQUITY II and III were announced in November of 1985 and scheduled for release in February 1986.

The new EQUITY II provides more features and better performance than the IBM PC-XT, with a base price of only $1695. They have used a NEC V30 (8086-compatible) microprocessor chip which offers dual speed operation. The user can easily switch between the standard 4.77 MHz and 7.16 MHz clock speeds. Two basic configurations are available: a single 360K floppy disk, or a floppy and a 20MB hard disk drive.

The new EQUITY III introduces the first multiuser, multitasking desktop computer from Epson America. This unit is compatible to the IBM PC-AT, and comes bundled with the latest MS-DOS version 3.1 software. The base configuration retails for $3495, and includes a single 1.2MB floppy disk drive as well as a hard disk drive controller. Up to 15.5 MB of RAM can be accommodated by the system. The unit comes with a key lock switch for security. The enhanced configuration includes a built-in 20MB hard disk drive.

EQUITY I	EQUITY II	EQUITY III
8088 (4.77 MHz)	NEC V30 (8086 compatible) 4.77 or 7.16 MHz selectable 20-bit address & 16-bit data bus	80286 (6MHz) Real address (8086 compatible) Protected virtual address (multi-tasking or multi-user) modes. 24-bit address 16-bit data bus
8087 support (option)	8087 support (option) with 8086 CPU	80287 support (option)
256KB RAM 640KB max.	640KB RAM	640KB RAM main board 15.5MB RAM max.
16KB ROM	16KB ROM	32KB ROM
INTERFACES		
Serial RS-232C DB-25 connector	RS-232C programmable Asynch. DB-25P connector	RS-232C programmable asynch. DB-9P connector
Standard 8-bit parallel DB-25 connector	Standard 8-bit parallel DB-25S connector	Standard 8-bit parallel DB25S connector
3 full size expansion slots	5 full size expansion slots	8; 6 with 16-bit bus 2 with 8-bit bus, 7 available in base configuration.
Internal speaker	Internal adjustable volume speaker Real-time clock, calendar 256 byte CMOS RAM for configuration w/battery backup	Internal speaker. Real-time clock, calendar, 256 byte CMOS RAM for configuration w/battery backup
Floppy Disk Controller on main mother board	Floppy Disk controller on main system board. Supports two drives with multiple formats; double-density and high-density (1.2MB).	Floppy Disk controller on main system board. Supports two drives with multiple formats. (360KB) and (1.2MB).
5-1/4" half height floppy disk drive; double-sided, double-density, 360K bytes	5-1/4" half height floppy disk drive, double-sided, double-density (360KB).	5-1/4" half height floppy disk drive, double-sided, high-density 1.2MB storage capacity.
AT Keyboard 82 keys	AT keyboard 83 keys	AT keyboard 84 keys

EQUITY I	EQUITY II	EQUITY III
OPTIONS		
2 floppy drives max, can support 20M internal half height hard disk drive.	Two half height devices max. Double-sided, double or high-density floppy drives, or 20MB hard disk with controller.	4 half height devices, max. Double-sided, double or high-density, 20 or 40MB hard disk drive.
Monochrome video board 80x25 line display	Monochrome Video board 80x25 line display 80x25 9x14 character block	Monochrome video board line display 9x14 character block
Monochrome Monitor 12" diagonal High-persistence green phosphor screen	TTL Monochrome Monitor 12" diagonal, P-39 phosphor screen. 22MHz 35W	TTL Monochrome Monitor 12" diagonal, P-39 phosphor screen. 22MHz

All three support Color/Graphics Video Boards, Epson or IBM PC compatible RGB or composite video monitors. 40x25 line display (low resolution text), 80x25 line display (high resolution text), or 640x200 (high resolution graphics), 8x8 character block.

RGB Color Monitor 13" Diagonal, 16 colors 640x200 pixel resolution 8x8 character matrix 80x25 line display	RGB Color Monitor, 13" Diagonal, 16 colors, 18MHz, High Contrast Screen	RGB Color Monitor, 13" Diagonal, 16 colors, 18MHz High Contrast Screen
256K RAM Expansion Board Installs on main system board.	Epson/Mouse Interface Board Two button mouse with card	Epson/Mouse Interface Board. Two button mouse with card.
		Hard disk controller supports 2 drives max with multiple formats. Installs in I/O Expansion slot.

Power Supply

Switching type, fan cooled, 115 VAC +5VDC, +12VDC, -5VDC, -12VDC

53W	100W	200W

Physical Dimensions

Width 14.5"	14.5"	21.12"
Depth 15.0"	15.0"	17.5"
Height 5.75"	5.75"	6.25"
Weight 24.3#	24.3#	

Keyboard on all three Models is 18.63" x 7" x 1.5" high and 3.1#

Warranty — One Year Limited Warranty Standard

Software Included

MS-DOS 2.11	MS-DOS 3.1	MS-DOS 3.1
GW-BASIC	GW-BASIC 2.02	GW-BASIC 2.02
XTREE	XTREE	XTREE

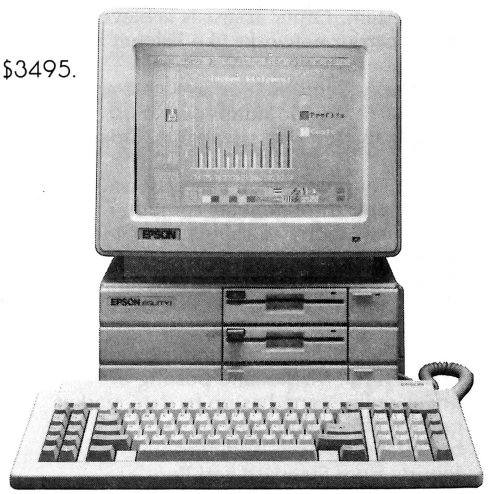
PRICING

Base Unit as described:

$995.	$1695.	$3495.

Options: Retail Pricing Is Provided

Epson Monochrome Video Card	$129
Epson Monochrome Monitor 12"	$149
Epson color/graphics video card	$149
Epson 13" RGB Color Monitor	$549
Epson 256K Memory Expansion Card	$169
Epson 360KB Floppy Disk Drive	$299
Epson 20MB Hard Disk (with Controller)	$1195
Epson 20MB Hard Disk	N.A.
Epson 40MB Hard Disk Drive	N.A.
Epson Mouse/Interface Card	$159



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EpsOnLine

Your Opportunity to join the EpsonConnection and other Epson Users Online

How can you communicate with Epson users across America and around the world-- without leaving your keyboard? The answer lies in EpsOnline, the Epson user's forum online with the CompuServe Information Service, now sponsored by the EpsonConnection.

What is CompuServe?

CompuServe, or Computer Information Service (CIS), is the largest and fastest-growing electronic information center in the country. This corporation uses a series of computers (Digital Equipment Computers), with multitudes of tape and disk storage units, each filled with information, and available for you to access over the telephone line. You only need a computer, modem, software which enables your computer to communicate with another computer (a public domain program such as QXMDM740, PCTalk, any number of commercial programs or ValMail), and a password.

There are over 250,000 people around the world who call into this service day and night. The service began in 1969 when an insurance holding company decided to use computers in their business. They leased time on other computers in the beginning, and then bought their own. Located in Columbus, Ohio, CompuServe has grown into a public company, and in 1980 became a subsidiary of H&R Block. There are over three hundred cities with direct, local telephone numbers for access to this system. Other access is achieved through carrier networks like Telenet and Tymnet.

The types of information available on CompuServe are too numerous to list here, but some of the services include:

- Online shopping - You can shop and order items through your computer.
- Reference Library - Groliers Academic American Encyclopedia is available for doing research and finding helpful facts. This is one library that never closes it's doors.
- Finance - With only a 20 minute delay between the Market and posting of prices online, one has up to date market quotes, along with banking and brokerage services, and corporate reports from Standard and Poor's General Information File.
- Travelshopper- Book your own flights in seconds, and browse the hotels available at your destination.
- CB Simulator is your opportunity to talk with others from around the country. This is just like using a CB, but your range is extensive.
- Mail - You can exchange electronic mail with any other subscriber to this service.
- Special Interest Groups (SIG)- EpsOnLine is the name of our SIG.

What is EpsOnLine?

EpsOnline is a special interest group located on CompuServe that puts you in contact with Epson experts and users of all levels of knowledge. Through the forum, users can enter questions, letters to the editor, send messages, upload and download articles, change your mailing address, and renew your subscription via modem. You can interact with other Epson users, send messages, give each other help, tips, and share the latest product news and compare product information with others before or after purchase. Another forum for interaction is through online conferences. A 'guest speaker' will be announced, and callers can participate in discussion with the online expert.

In addition to the bulletin board and conferencing areas of EpsOnline, a third area is dedicated to storing help files and public domain software. Here, in the data libraries of the forum, users can exchange programs and documentation by uploading and downloading files to and from CompuServe.

EpsOnline has been available on CompuServe for two years, and was previously managed by Epson America. EpsonConnection assumed management of the database on October 28th of this year, and will be sponsoring the forum by providing information, news and support to anyone interested in Epson-related products and applications.

We are grateful to Epson America and their employees for the extensive effort put into creating EpsOnline. Jessica Hatch, Jill Bauhs, Mike Morra, have set up this forum, and spent time answering questions, and have helped direct users in a wide variety of ways. We hope they will be able to visit, and help out on a continuing basis, even though it will be on their own time.

We have committed our staff, Bob Hermann and Allen Howell, to continuing the service on CompuServe. Ralph Ruh will be our third SYSOP on EpsOnline. In addition to the continuing assistance from Mike and Jill, John Ross (who has been a SYSOP on another SIG for over 2 years) and Chris Hopkins will also be available to assist callers.

We see the CompuServe environment as an extension of our efforts in providing a valuable resource to Epson computer equipment owners. We continually receive numerous articles, tips, and communications from users which we cannot print in our magazine due to financial constraints on space. We will be able to place these online, and let you know they are available. This will allow our magazine to grow, without the usual cost increases. New product information will be available at press release time, rather than being subject to normal printing schedules. We also plan to schedule guest speakers for online conferences with users and welcome your suggestions.

How to Join CompuServe

EpsonConnection, in cooperation with CompuServe, is offering you a subscription to CompuServe and the ability to access EpsOnline. The CompuServe IntroPak offer provided includes a $15.00 usage credit on CompuServe that can be applied to many of the more than 900 areas of the Information Service.

After receiving your IntroPak, you are ready to log onto CompuServe and EpsOnline. The instructions within the IntroPak will aid you in this task. After you have logged on to CompuServe, just type GO EPSON at any CompuServe function prompt (seen as an exclamation point !). You will then be at the front door of EpsOnline, and one of the thousands to receive support through telecommunications. There are more detailed manuals available about CompuServe which can be ordered directly from CIS.

We look forward to becoming one of the most active groups on CompuServe. So send in your coupon today and join us OnLine.

Note: Bob has prepared more detailed notes and hints for your first online call in the "First Time: CompuServe" article in this Resource Guide. ■

First Time: CompuServe EpsOnLine

To get you started we have included a brief primer on EpsOnLine, and how to call into CompuServe. Before you attempt to log onto CIS there is some initial preparation. It's always a good idea to have a pen, a pad of paper, and an extra formatted disk within easy reach. Also, you should know how to set up and initiate a **capture buffer** (see side note) with whatever software you are using.

Before you will be allowed to use your complementary connect time, you will have to provide CIS with billing information (in case you decide to continue to use the service). The first time you use the account number which comes with the IntroPak you will need to provide a charge card or a checking account number. So have either your plastic or your checkbook on hand.

We shall present an outline of how to make the most use of the free time that has been provided. This will be done in a step-by-step process. First we'll sign on and take you through the CIS system initiation and give you a feeling for how the service in general operates. Then we'll go to EpsOnLine, join the SIG, and introduce ourselves to its members. Next we'll go offline (hang up) and review what you've seen. Then we'll get back online to EpsOnLine and give a brief introduction on how to make use of it, show you where to get help if needed, and try to give some pointers on making the most of your free connect time.

Before we do anything online, we shall prepare a message introducing ourselves to the members of EpsOnLine. Use your word processor to prepare this message (call it 'INTRO.MES'), which might look something like the following:

Hello, my name is ... and I live in .... I own an Epson ... with...(give a brief listing of your computer hardware and the software you most often use). My main interest in computing include...

Be sure not to have more than 76 characters per line in your message.

Armed with your new CompuServe IntroPak, set your communications parameters via SETUP to 7 bits, even parity, and one stop bit. Our August issue focused on Telecommunications, and if you need more detailed help, you might get your copy out. Now, initiate a capture buffer with your modem program. Then, using a CIS node from those numbers provided on pages 22-23 of the IntroPak, call via modem to CIS, following the instructions for your computer & software. A more complete list of access numbers can be obtained while online.

Contd. on page 71

SPECIAL SUBSCRIBER OFFER

A COMPUSERVE IntroPak STARTER KIT which includes $15.00 useage fee FREE! Send in this coupon to the address indicated, and affix the peel-off mailing label from the front cover of your issue. This is your chance to try an ONLINE database, and learn the benefits of telecommunications.

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5000 Arlington Centre Boulevard
P.O. Box 20212
Columbus, Ohio 43220

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CB Simulator lets thousands of enthusiastic subscribers "chatter away" on 72 different channels.

Over 100 Forums welcome you to join their online "discussions." They're for everyone from computer owners and gourmet cooks to physicians and game players.

Bulletin Boards let you "post" messages where thousands will see them.

HAVE FUN

Our full range of games includes "You Guessed It!," the first online TV-style game show played for real prizes; MegaWars III, the ultimate in interactive excitement; board; parlor; sports and educational games.

SHOP

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1986 Shoppers Guide

ASTROKEY

QX-10/16
CP/M B 2.20 & Higher

ASTRO RESEARCH, INC.
974 N.W. Circle Blvd.
Corvallis OR 97330
503-758-1132

Astrokey permits the user to modify keyboard assignments. Single character or string assignments can consist of any character(s) and can be assigned to any key. New key assignments can be stored and later executed directly, or may be automatically 'patched' to any application program for automatic execution and reset. Includes sample files for dBase, Wordstar, etc. $49.95 postpaid. Demo disk $5.

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HX-40
CP/M

MICRO LAB, INC.
Suite 4 105 Wedgewood
Lincoln NE 68510
402-483-7474

Brains, works like a cash register with complete point-of-sale functions, but offers much more. Brains helps you: Control inventory, Monitor product performance, Increase profitability. This system includes BRAINS software, and as the register, the Epson HX-40 computer with expanded memory and item keyboard.

CATALOG-MASTER V2.0

QX-10/16 GENERIC COMPUTER PRODUCTS, INC.
CP/M, MS/PC-DOS P.O. Box 790, Dept. 125QS
Marquette MI 49855
906-249-9801

Provides sorted master directory listing of all the files from several disks. Selective reports are available. Menu-driven. Disks are cataloged by merely putting them into your computer. Saves time, since you know which files are on which disk. $39.95.

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Data base programs designed to record, analyze, print fishing success to help predict where, when, and how to fish in the future. Use easy "fill in the blank" method to enter data in fifty to eighty closed and open categories.

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Fixed-asset program maintains asset inventories and depreciation schedules. Menu-driven. Supports all standard depreciation methods and fiscal year and ITC calculations. Standard ACRS schedules supplied on disk. Several report formats are provided including Tax Form 4562 output. $249.00.

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QX-10
CP/M

NET ONE DATA CORPORATION
4283 Village Centre Court
Mississauga ONT L4Z 1S2
800-387-3207

Easydisk is a hard disk system for the Epson QX-10. Easydisk features: - from 10MB to 140MB of on line data storage; 2 RS-232 Serial Ports; Runs at 6MHz; 20MB tape backup available Easydisk prices start at $3,695.00.

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QX-10
CP/M

NET ONE DATA CORPORATION
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Mississauga ONT L4Z 1S2
800-387-3207

Easynet is a local area network which allows a single user Epson QX-10 to share resources and communicate with other QX-10's or other CP/M based microcomputers. Reliable yet inexpensive, Easynet does not require any central file server and runs on low cost twisted pair cable. Easynet lists for $695.00.

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Communications utility allows file transfer between any CP/M-80 and/or MS-DOS computer, regardless of system/disk format differences. Wildcards allow multiple-file transmission with 1 command. Baud rates from 50-38, 400. use with modems or by serial port connections. $59.95.

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QX-10/16, PX-8
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QX-10/16
CP/M-80, MS-DOS

DIGITAL MARKETING CORP.
2363 Boulevard Circle #8
Walnut Creek CA 94595
415-947-1000

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QX-10
CP/M 80

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2363 Boulevard Circle #8
Walnut Creek CA 94595
415-947-1000

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Chocolate Diskette: The ideal gift for computer owners who love chocolate! This diskette is 4.8 ounces of delicious milk chocolate in the the shape of a 5 1/4" diskette. It comes in a real vinyl case that will hold 3 real diskettes. Available thru Christmas only.
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Turbo Pascal: Borland version 3.0. The best Pascal compiler on the market.
Turbo Pascal $69.95

Turbo Toolbox: Set of 3 utilities for use with Turbo Pascal.
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Turbo Tutor: Step-by-step instructions on how to use Turbo Pascal.
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Mychess: Epson QX-10 owners rave about the full graphics version of this award-winning world class chess program. Features nine skill levels with over 850 opening moves. Prints moves and saves game in progress. Graphics version requires Epson version B of CP/M. A character graphics version is also included for version A of CP/M.
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Hitchhiker's Guide to the Galaxy: From the best selling novel by Douglas Adams. Laugh while your planet is demolished. Watch out for the Ravenous Bugblatter Beast of Traal as you search the universe for a decent cup of tea...or whatever it is you're looking for!
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Witness: Spine tingler murder mystery game in the classic hard boiled detective tradition. Blackmail turns to murder and one of your suspects is the killer. Can you solve the crime in just 12 hours?
Witness (QX-10) $39.95

Word Wiggle: Scrambled letter game for building vocabulary skills of young and old. Eleven skill levels containing 40,000 word dictionary. Fast paced, fun, and educational. Great for kids!
Word Wiggle $29.95

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ZORK I (QX-10) $39.95

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Computer Chef: - #1 in the Series:The computerized cookbook for food lovers. Contains a data base of almost 100 recipes with space to add your own. Auto scale ingredient quantities, find recipes by key words or type of ingredients you want to use, then display or print your selection. Many other features. Computer Chef runs with Valdocs 1.8 or later, or CP/M.
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What's for Dinner: - #2 in the Series: A collection of 200 delicious main dish and dessert recipes for every occasion. Requires Computer Chef program. (Not included.)
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PX-8, HX-20

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QX-10/16

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PX-8, IBM PC
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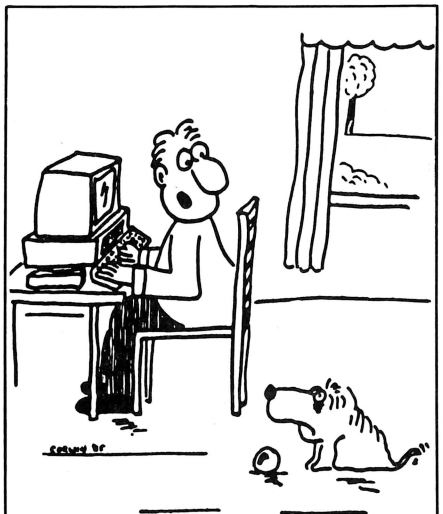

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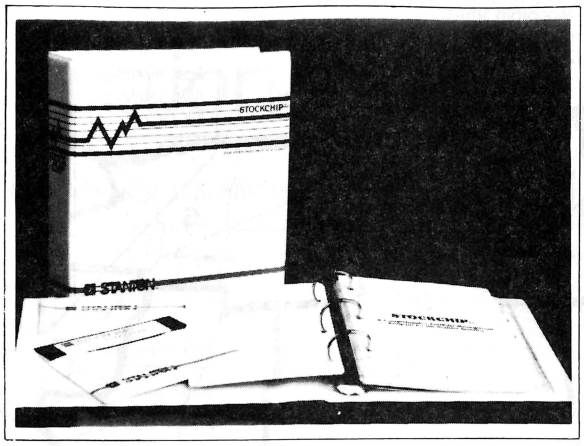

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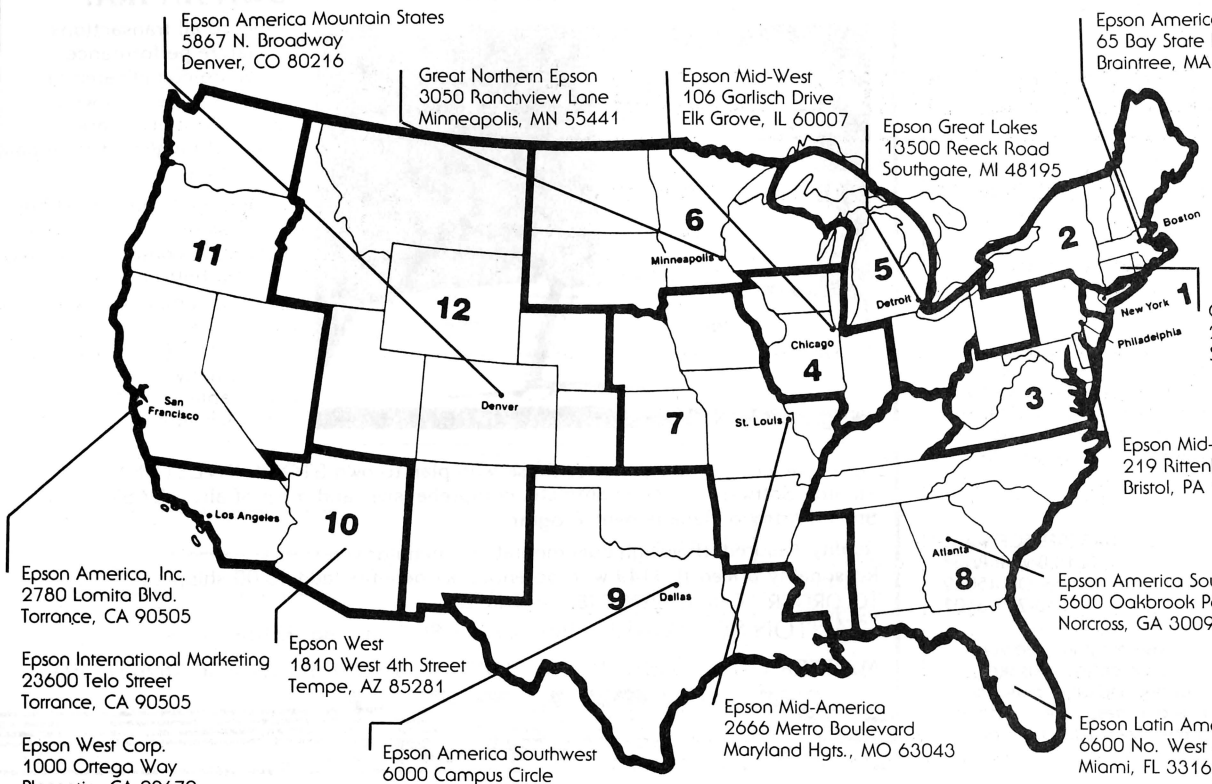

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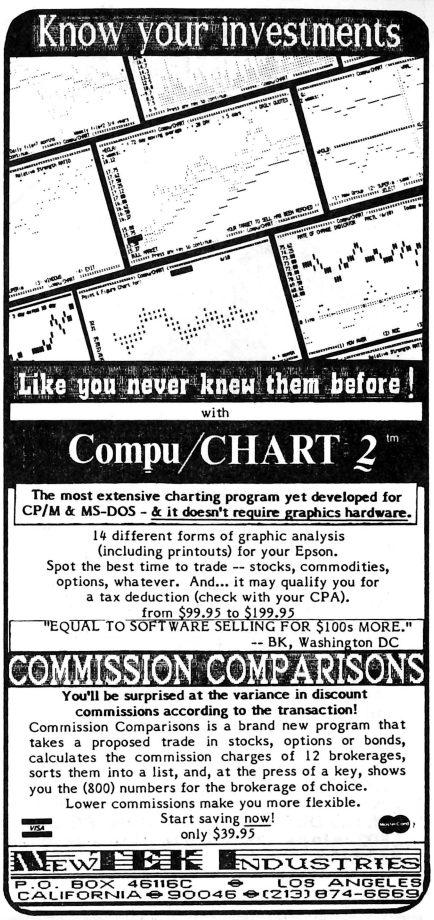
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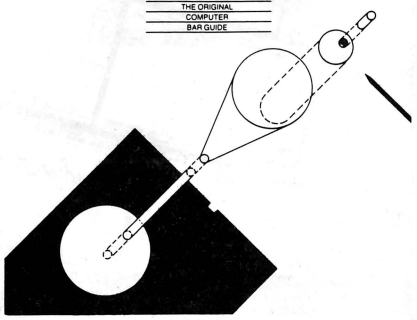

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Qubie 212a	A new, inexpensive alternative modem for your Epson computer.	Ron Spatafora	Oct 84	24
QXPC 2	A preview of the second generation Titan board, the QXPC 2.	E.C. Staff	Nov 84	16
Semidisk	The ramdisk emulator board for the QX-10.	Ty Sfat	Nov 84	43
QXPC 2	MS-DOS co-processor board for the QX-10.	Jim Markevitch	Feb 85	42
Grand Junction	Connecting multiple computers (multiplexing) to the same physical hard drive with the Bi-Tech.	Allen Howell	Mar 85	16
QX-16	The new Epson desktop computer hosts three operating systems.	Bill Howey	May 85	22
CR-420	A heavy duty and high speed business printer from Comrex.	Allen Howell	May 85	19
SXPrinter	A near letter quality portable dot matrix printer.	Bob Hermann	May 85	36
HI-80 Plotter	A review of the Epson 4-pen color plotter.	Jerry Howell	Jun 85	39
Pro-Modem 1200	A review of the Prometheus 1200 baud modem.	Bill Howey	Aug 85	32
Courier 2400 Baud	A review of a versatile high speed modem.	Ron Spatafora	Aug 85	34
CodeStar	An internal board to provide data security for your QX computer.	Allen Howell	Sep 85	43
Equity 1	Epson introduces its first IBM PC compatible series.	Carolyn McCarthy	Nov 85	12
QXSYM-1	A speech and sound synthesizer board to make your QX talk.	Allen Howell	Nov 85	18
The Dynatech Powerhouse 300	A high quality battery backup unit to protect your data and computer from electrical problems.	Jerry Howell	Nov 85	26
Networks and Multiplexers	An update article on the Bi-Tech plexer system and a look at the Easynet network system.	Allen Howell	Nov 85	29
DX-10	A look at the DX-10 printer to meet your letter quality needs.	Tim Nash	Nov 85	34

PORTABLE

QX-10 & HX-20, Just a Handshake Away	An explanation of how to get the HX and QX to 'talk' to each other.	Doug Porath	Nov 83	10
Working with the HX-20 User Defined Character Set	An explanation of how to create your own characters for the HX-20 along with an MBASIC program.	Mr. Bob	Jan 84	16
Database Management System	A menu driven data base program for the HX-20 by Brian Lomasky.	Bob Hermann	Mar 84	30
Keeper	A scheduler and appointment keeper for the HX-20.	Bob Hermann	May 84	16
XM 16/48 Memory Expansion Board	An alternative to the Epson manufactured expansion unit for the HX-20.	Bob Hermann	Jul 84	22
Mathtutor	An instructional program for the HX-20.	Bob Hermann	Jul 84	23
The new Geneva PX-8	A preview of the new Epson portable computer.	Carolyn McCarthy & Bob Hermann	Jul 84	30
HR-5	A portable, thermal printer for use with the HX-20.	Bob Hermann	Sep 84	16
The Remarkable Geneva PX-8 Part I - Hardware	An in-depth look at the new Geneva PX-8 from Epson America.	Carolyn McCarthy & Bob Hermann	Oct 84	8
ThinPrint	A portable thermal, 80 column printer for use with your HX-20 or PX-8.	Bob Hermann	Oct 84	14
ITE+ Chip	A ROM based communications program for the HX-20.	Bob Hermann	Oct 84	18

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The Remarkable Geneva PX-8 Part II	The operating system, utilities, and software that comes with the Geneva PX-8.	Carolyn McCarthy & Bob Hermann	Nov 84	34
Modem for Portable Computing the Lexicon 12b Acoustic Modem	Offering trouble free operation, as well as maximum flexibility in a battery powered, acoustic modem for the HX-20 or PX-8.	Bob Hermann	Nov 84	37
Printing Portable WordStar Files	Sending control codes to an unsupported printer from portable WordStar.	Richard Rockwell	Jan 85	47
An Academic Experience with the PX-8 and IBM	A users account of using the Geneva PX-8 and IBM-XT.	Doug Whitman	Jan 85	51
Axonix: Thin Type	A letter quality, battery operated portable printer with Centronics parallel port for the Geneva PX-8 and the HX-20.	Bob Hermann	Feb 85	44
Phone Directory	Manage several telephone number and name directories of up to 255 entries each on the HX-20.	Jerry Debuhr	Feb 85	45
Time Accountant	Job Accounting data base for the HX-20.	Bob Hermann	Feb 85	48
Step by Step	File transfer between the Geneva and the QX-10.	Bob Hermann	Feb 85	25
18 Wheel Deal	A portable accounting program for truckers and the HX-20.	Jerry Debuhr	Mar 85	22
Business Finance Library	Eight programs to aid the business person in rent, cash flow, depreciation, etc., for the Geneva PX-8 or HX-20.	Ronald Pratt	Mar 85	33
Deskmaster-6	A helpful program to aid in the making of decisions. Use your HX-20 to compare, weigh, and rate alternatives.	David Cristovitch	Mar 85	31
A Guide to Geneva Communications Programs	A chart of commercial and public domain telecommunications programs available for the Geneva PX-8.	Bob Hermann	Aug 85	41
Portable Communications with the Geneva Connection	An 8k communications package for the Geneva PX-8 distributed on ROM.	Sherwin Levinson	Aug 85	48
Teledex	A menu driven integrated system including telecommunications, address cardfile and appointment keeper for the Geneva PX-8.	Bob Hermann	Aug 85	44
Traveler's Pak	Appointment book, expense log, and time management software for the Geneva.	Bob Hermann	Sep 85	47
Portable Network System	Portable network for the Geneva PX-8.	Bob Hermann	Nov 85	36

PROGRAMMING & OPERATING SYSTEMS

CP/M and Your Epson	A brief introduction as to what an operating system is and how it functions with your hardware and software.	Carolyn McCarthy	Jul 83	2
Basic Notes About MBASIC	An introduction to Microsoft BASIC.	Carolyn McCarthy	Nov 83	21
An MBASIC Program	A short printer control program.	Charles Edwards	Nov 83	21
Create your own TPM Operating System	How to create a TPM operating system disk from the Valdocs disk and take advantage of the added features.	Ralph Ruh	Mar 84	8
RSI Basic for The QX-10	An introduction to the features of RSI Basic the original version.	Clyde Lindsey	Mar 84	12
CP/M-B, What is it ?	A look at the features of CP/M-B.	Carolyn McCarthy	May 84	4
PeachText Series 9 and CP/M-80 B	A description of a bug in an early release of CP/M-B and tips on how to overcome it.	Mike Dilbeck	May 84	5
Some Real "BASICs"	A short introduction to MBASIC.	Carolyn McCarthy	May 84	13
Logo Professor	An introduction to the Logo language and the Logo Professor with the QX-10.	Judy Pope	Jul 84	14
RSI Basic: The Power BASIC	A listing of the unique commands in RSI Basic.	Dennis Dreyer	Aug 84	26

Special Interest BBS's

Legend:
* = 300 baud
** = 1200 baud
*** = 2400 baud
$ = access charge

HAM RADIO NET **$
203-665-1114
SYSOP: Ed Raso
INTEREST: Ham Radio

BILL's TOY **
203-792-6574
SYSOP: Bill Waggoner
INTEREST: Pascal, Games

UNIX BBS **
914-786-3705
SYSOP: Bruce Boardman
INTEREST: 'C', Unix

WINDY CITY BBS ***
312-394-5772
SYSOP: Roger Heath
INTEREST: Medical R&D

TECHNICAL BBS ***
313-846-6127
SYSOP: Dave Hardy
INTEREST: Technical

KALAMAZOO RCP/M *
616-342-4062
SYSOP: Eric Schreur
INTEREST: Earth Sciences

ASTRONOMER's BBS **
305-268-8576
SYSOP: Chuck Cole
INTEREST: Astronomy

dBASE-II BBS **$
408-378-8733
SYSOP: Roger Brown
INTEREST: dBASE-II

ZCPR3 CENTRAL ***
415-489-9005
SYSOP: David McCord
INTEREST: ZCPR3

HUMOR & WISDOM **
415-674-0660
SYSOP: Wayne Webber
INTEREST: Humor, Jokes

SUTTER HOSPITAL **
916-454-3324
SYSOP: Carl Pantiskas
INTEREST: Biomedical

GFRN DATA EX. **
213-541-2503
SYSOP: Skip Hanson
INTEREST: Ham Radio

MBBS HQ *$**
213-653-6398
SYSOP: Kim Leavitt
INTEREST: MBYE, MBBS Prg.

WORLD PEASE BBS ***
303-320-4822
SYSOP: Alfred Carr
INTEREST: Communications

RENO INT'L BBS **
702-826-2337
SYSOP: Ron Stevenson
INTEREST: Vacation Data

DALLAS RCP/M *$**
214-931-8274
SYSOP: Dave Crane
INTEREST: Science & Eng.

EC INDEX

PROGRAMMERS BBS **
801-264-8290
SYSOP: Bob Briggs
INTEREST: 'C', Pascal

BLAISE PASCAL BBS **
718-604-1930
SYSOP: Jack Durosier
INTEREST: Hardware, DOS's

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SOUTH WESTERN STATES

Los Angeles, CA **
714-630-7104
24 Hrs. 7-days H.D.

Salt Lake City, UT ***
801-485-0383
24 Hrs 7-Days

NORTH CENTRAL STATES

Leawood (Kansas City), KS ***
913-642-8479
24 Hrs Per Day H.D.

SOUTH CENTRAL STATES

Dallas, TX ***
214-881-0313
24 Hrs. 7-days H.D.

Houston, TX **
713-991-4461
24 Hrs. 7-days

Brownsville, TX *
512-831-3555
6PM - 10PM M-F
24 Hrs. Sat & Sun

MIDWEST STATES

Wauwatosa (Milwaukee), WI ***
414-476-2995
12PM - 4PM M-Sun
6PM - 12AM M-Sun

Epconn SOCIS ***
Detroit, MI (PW=HASCI)
313-823-1425
24 Hrs. 7-Days H.D.

Lake Zurich (Chicago), IL **
312-438-6149
Mon-Sat 8PM-11PM

Portage, IN **
219-762-5620
6PM - 6AM 7days

Aurora, IN ***
812-926-3396
24 Hours

Greenville, OH ***
513-548-3326
6PM - 9AM EST Mon-Fri
1PM Sat - 9AM Mon H.D.

NORTH EAST STATES

South Blue Hills, ME ***
207-374-2203
6PM - 6AM H.D.

Sugarbush, VE ***
802-496-4123
24 Hrs 7-Days H.D.

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TLC - Logo	Using the TLC-Logo programming language and turtle graphics on the QX-10.	Judy Pope	Oct 84	28
Pascal Programming For The Hobbyist Part I	An attempt to convert the MBASIC programmers of the world to the Pascal programming language.	David Crotty	Nov 84	12
Dosplus IV	A powerful & affordable operating system for the QX-10 owner with experience.	George Puckette	Nov 84	30
Pascal Part II	Exploring Turbo Pascal.	David Crotty	Jan 85	22
The Basic Transition: HX to PX	Translating M-BASIC between the HX-20 & the Geneva PX-8.	Robert Gahl	Jan 85	48
What's It All About?	Features of the CP/M B-2.25 release.	Allen Howell	Jan 85	8
LEDIT	A line editor utility written in MBASIC.	Allen Howell	Feb 85	11
CP/M Begins Part I	The rudiments of CP/M.	Carolyn McCarthy	Mar 85	12
Teletype	An application in MBASIC; a journey into the past.	Mike Dilbeck	Apr 85	11
CP/M Begins Part II	Beginners tips for CP/M.	Carolyn McCarthy	May 85	10
ZCPR	An enhancement for the CP/M 2.25 operating system and a complete replacement program for CP/M's CCP.	Allen Howell	May 85	13
Entering MS-DOS	An introduction to the MS-DOS operating system.	Allen Howell	May 85	29
Graphics & Pascal Part I	Using MicroNova's Turbo Plot and Borland's Turbo Pascal with the QX-10.	David Crotty	Jun 85	33
Graphics & Pascal Part II	Using Turboplot in the TPM-2 environment.	David Crotty	Aug 85	51
MBASIC Challenge	A one line MBASIC modem program for CP/M.	Allen Howell	Aug 85	54

SPREADSHEETS

Mini-Calc	A simple spreadsheet program in MBASIC.	Allen Howell	Mar 85	34
Spreadsheet list For Epson Computers	Spreadsheets tested and verified to work by Epson America.	Epson America	Sep 85	20
PeachCalc and MultiPlan	Two excellent spreadsheet programs to consider.	John D. Yoder	Sep 85	28
Spreadsheet Applications	Savings account planning with MathPlan, & income and expense tracking for writers and home photographers with PeachCalc.	John Yoder	Oct 85	44

TELECOMMUNICATIONS

Using the Hayes Smartmodem & QX-10	Describes how to connect the Hayes Smartmodem to the QX-10.	Carolyn McCarthy	Jul 83	3
Two Steps Backward - One Step Forward	An introduction into the basic elements involved in telecommunications - the ASCII code, serial communications, and modems.	Doug Porath	Jan 84	4
Epson International RBBS/RTPM Network "EpsonNet"	What EpsonNet is, how to use it, and a listing of the systems available.	Ron Spatafora	Jan 84	12
CP/M and Telecommunications	A look at the world of telecommunications and CP/M and a discussion of how to upload and download using XMODEM protocol.	Ralph Ruh and Ron Spatafora	Jan 84	14
Tour of Online Databases	An introduction to the services available online.	Bob Hermann	May 84	6
SmarTerm v.2.0	A communications program for the HX-20.	Bob Hermann	May 84	16
The Online Medical Connection	An overview of some of the medical services available online.	Bob Hermann	Jul 84	6
Epsonlink	Communications software available on a ROM chip for the HX-20.	Bob Hermann	Jul 84	34

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BRS/After Dark	Bibliographic retrieval service provides online database access for libraries, businesses, and technical information centers.	Bob Hermann	Sep 84	22
Introducing EpsOnLine Part I	An online special interest group (SIG) dedicated to people interested in Epson products.	Jessica Hatch and Bob Hermann	Feb 85	19
INTEXT	An advanced word processor and communications program originally for the HX-20 and now available for the Geneva PX-8 & QX-10.	Bob Hermann	Feb 85	46
A Discussion of the CX-20 Acoustic Coupler	A discussion of problems, explanations, and a few solutions to using a CX-20 acoustic coupler with the HX-20.	Mike Morra	Mar 85	44
MYHOST & Mite	A review of a terminal and host program for the QX-10, from Mycroft Labs, Inc.	Allen Howell	Mar 85	20
LYNC	A command driven, versatile and powerful communications program designed for the professional. Works with the QX-10 as well as the PX-8.	Bob Hermann	Apr 85	12
On-line Shopping	Some aspects of using your computer to do your shopping.	Bob Hermann	Apr 85	32
A Guide to Communications Programs	A summary chart of popular communications packages available for Epson desk top computers.	Allen Howell	Aug 85	14
Telecommunications	An attempt to clarify common jargon, as well as basic principles, used in telecommunications.	Sherwin Levinson	Aug 85	17
TBBS: The Bread Board System	A versatile bulletin board package for desktop computers.	Ralph G. Ruh	Aug 85	18
Post Plus	An easy to use, versatile, menu-driven communications software package for the QX-10.	Arshag K. Odabachian	Aug 85	21
The Basic Concepts	An introduction to using communications software and performing file transfers.	Allen Howell	Aug 85	15

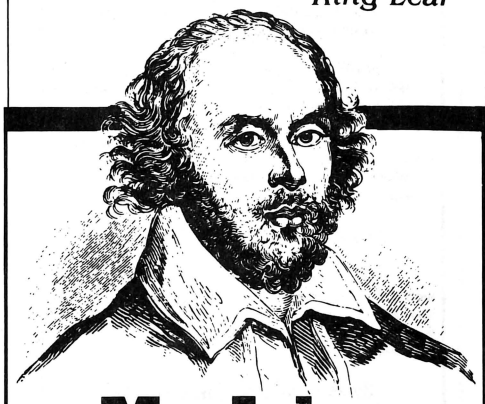
UTILITIES

Squeeze and Unsqueeze	A short explanation of squeezed files and these CP/M Squeeze utilities.	Carolyn McCarthy	Jan 84	3
User Areas	How to use this feature of the TPM system.	Carolyn McCarthy	Mar 84	14
Uniform: A Universal Disk Format	Uniform formats disks and hard drives in CP/M, MS-DOS, and PC-DOS systems.	Mike Dilbeck	Mar 84	21
Let's Talk about ZPIP	A discussion on how to use the TPM utility, ZPIP.	Carolyn McCarthy	May 84	11
Public Domain Epson Printer Programs	A description of public domain printer control programs.	Carolyn McCarthy	May 84	29
Smartkey II	Keyboard customizing utility. Allows the user to re-define any key on the QX-10.	John D. Yoder	May 85	37
Xtrakey	A comprehensive program to customize your QX-10 keyboard.	Bob Hermann	May 85	39
Techni-Call	A computerized technical library on disk from Epson America for your QX-10.	Bob Hermann	Oct 85	29
Sidekick	An MS-DOS integrated program providing a notepad, calendar, appointment book, calculator, and phone directory.	Steve White	Oct 85	41
Ram Disk and Printer Buffer	MS-DOS utility programs for the QX-10 with the QXPC2.	Allen Howell	Nov 85	29

VALDOCS

Valdocs 1.18 is Here	An introduction to Valdocs 1.18 and a list of options.	Carolyn McCarthy	Sep 83	1

At Christmas I no more desire a rose
Than wish a snow in May's new fangled mirth
But like of each thing that in season grows
—King Lear



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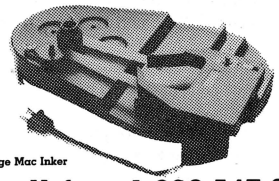

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How to Rebuild a Damaged Valdocs 1 Series Data Disk	An explanation of the difference between an indexed and non-indexed file, with a procedure to rebuild a data disk.	Richard Rockwell	Jan 84	11
Using the Valdocs 1 Mail Program to Receive Files	How to use the QX-10 to access and receive program and data files through the mail portion of Valdocs 1.	Russell Pillsbury	Jan 84	21
Getting the Most out of Valdocs 1.18	A discussion of the evolution of the Valdocs concept.	Colonel Hasci	Mar 84	4
How to use Valdocs 1 with MCI Mail	Procedures for setting up Valdocs mail for use with MCI Mail.	Miles Hoover	Oct 84	23
UNIX to QX	How to get a Valdocs Version 1 documents into a UNIX computer.	Al Braley	Nov 84	11
EZ-Code	Allows access to utilize practically all of your printers typestyle capabilities with Valdocs.	Allen Howell	Jan 85	35
How to use Valmerge	A public domain mailmerge utility for Valdocs 1.19.	Allen Howell	Feb 85	38
Epson talks about Valdocs 2.0	An interview with Peter Bergman, Epson product manager for desk top computers.	Jessica Hatch & Chuck Champlin	Mar 85	7
ValDraw	Exploring the menus in Valdraw.	Dennis Dreyer	Jun 85	17
Creating a Custom Valdocs 2 Editor Disk	How to make a single boot-run editor disk.	Carolyn McCarthy	Jun 85	20
Defkey	A Valdocs 2 module that allows you to redefine the special HASCI keys at the top of your keyboard, as well as the numeric keypad.	Jennifer Capp	Jun 85	32
The Valdocs 2 Text Editor	Using Defkey to get the most out of your Valdocs editor.	Bill Howey	Aug 85	36
Modems and Valdocs 2 Mail	Notes on setting up your modem for use with Valdocs 2.	Jim Jeter	Aug 85	11
Valdocs 2 Mail: A New Frontier	Exploring the new features of mail in Valdocs 2.	Allen Howell	Aug 85	25
Introduction to Valdocs 2 Spreadsheet	Introducing Valdocs 2 spreadsheet and its ability to create graphic representations from your data.	Carolyn McCarthy	Sep 85	21
Guide to the Valdocs 2 Spreadsheet	A helpful chart containing the Valdocs 2 spreadsheet menus.	Carolyn McCarthy	Sep 85	22
Valdocs 2 Spreadsheet Getting the Most for Your Data	Using Valdocs 2 spreadsheet and the ability to transfer your spreadsheet data into the editor.	Charlie Beeman	Sep 85	23
Spreadsheet to Valdocs 2 Editor Transfer	More about transferring Valdocs 2 spreadsheet data to your Valdocs 2 editor.	Dan Oja	Sep 85	32
Valdocs 2 Error Messages	A list of the most common error messages in Valdocs 2 with commentary.	RSI & Epson Systems Group	Oct 85	15
Valdocs +	The programmable environment from Rising Star Industries.	Paul Rothweiler	Nov 85	15

WORD PROCESSING

Finalword Part I	A word processor, text editor, and text formatter for use with your QX-10.	Dan Rourke	Nov 83	6
Finalword Part II	The final word on Finalword.	Dan Rourke	Jan 84	8
WordStar	The popular wordprocessing software for the QX-10 and the Geneva PX-8.	Carolyn McCarthy	Nov 84	20
The Idea Craftsman	Kamas, an outline processor, software programming tool, & communications package for CP/M.	Constance Cumbey	Mar 85	24
Punctuation & Style	A CP/M and Valdocs application. This one disk product significantly improves punctuation and phrasing.	Franc La Clair & William Coxe	Mar 85	28

Geneva PX-8 Cables

Fig. 1-8 shows in a diagram the information cables for all the available peripheral devices.

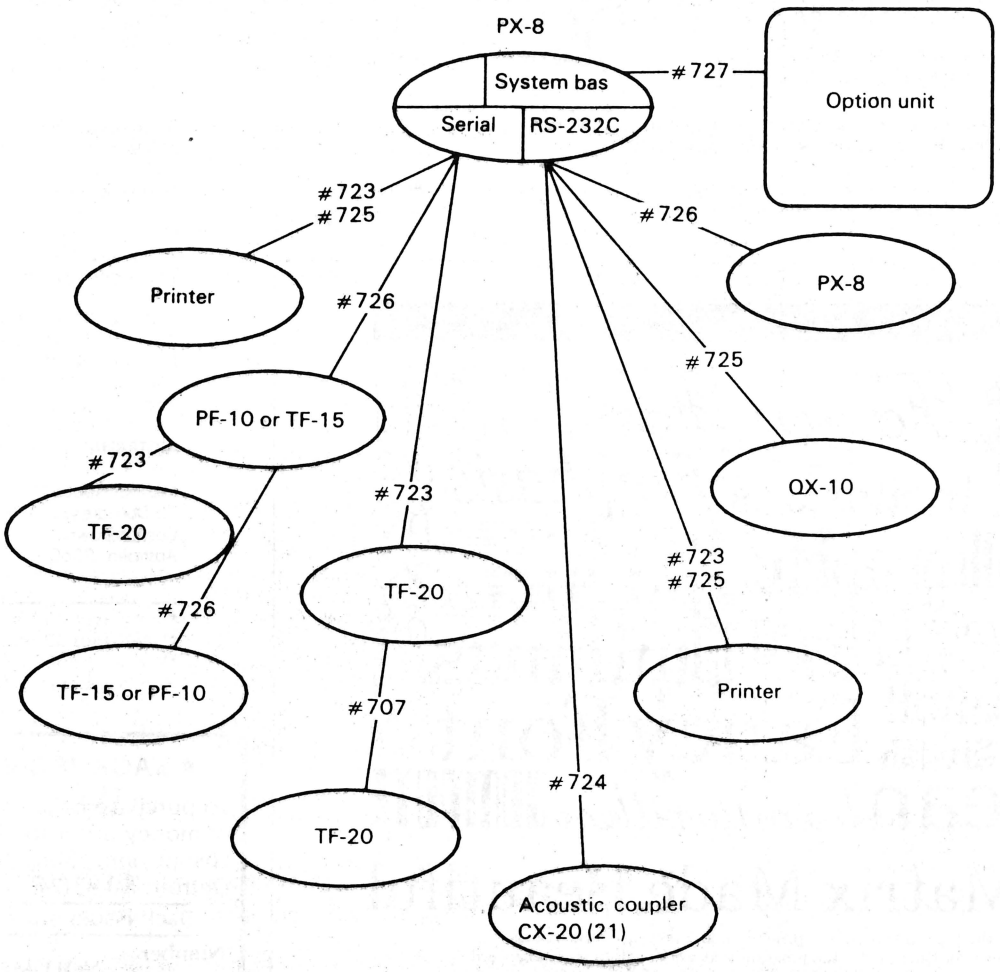

Fig. 1-8 Peripheral Device Information Cables

Table 1-17 Information Cables Specific to the PX-8 Computer

No.	Interface	Part No.
#723	High speed serial	Y204080000 (Y204080400···JAPAN)
#724	RS-232C	Y204080100 (Y204080500···JAPAN)
#725	RS-232C	Y204080200 (Y204080600···JAPAN)
#726	High speed serial/RS-232C	Y204080300 (Y204080700···JAPAN)
#727	Expansion interface	Y204301000

Reprinted from the "Hardware Technical Manual for the PX-8" by Epson America, Inc.

WORD PROCESSING contd.

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Fontstar	A font generator program allowing you to print out WordStar files in any of 16 different fonts. Includes the capacity to generate fonts of your own design.	Willie Ihlenburg	Apr 85	35
V-Spell	A powerful spelling checker program for use with your desktop computer.	Gary Corwin & Greg Barron	Apr 85	20
Random House Proofreader	An excellent spelling checker that also works well with Valdocs.	Steve Stecklow	May 85	16
V-Spell Update	Update of previous article on this powerful new spelling proofreader.	Gary Corwin	Jun 85	13
Word Processing and Valdocs 2	A look at text editors: Framework, Word, WordStar 2000, NewWord, and Valdocs 2.	Bill Howey	Jun 85	23
Mscript	An inexpensive word processor that is quick and easy to learn (QX-10 & MS-DOS).	Steve Stecklow	Aug 85	35

■

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Continued from page 20

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EpsonConnection
Disk of the Month Series

"Quality" CP/M Games.

These are some of the best CP/M public domain game programs from 1984 (they were so good we thought we would offer them again this year). Among the great games on this disk, the ADVENTURE game is perhaps the most sought after (ADV.COM). This program uses about 200k of disk space and is the original adventure game that was developed about 10-15 years ago on a college mainframe computer. It was the first major adventure game, and is still one of the best. Other games on this disk include:
Aliens, Eliza, Master Mind, Othello, Vegas, and Chess.

RSI BASIC Games, Graphics, and Demos.

This disk contains two large library files, which contain specific squeezed files. The GRAPH.LBR file contains a loader program and 30 graphic pictures, many of which we use in the magazine. These files are not RSI BASIC programs; however, they utilize RSI BASIC fonts, so RSI BASIC must be loaded first before you run LOADER. The RSIBASIC.LBR file contains games and demo programs which you can run and/or alter. There are a number of useful routines that you may wish to apply to your own RSI BASIC program. Some additional programs within the RSIBASIC.LBR file are:
Battleship, Calendar, Clock, Envelope, Kingmaker, Mastermind, Megatrek, Music, Patterns, Robot, Shuttle, and more...

More Utilities and Music

This disk includes 5 library and 3 .COM (or .SYS) files. Each is described below:

VALMERGE.LBR - Contains 3 programs and two documentation files. VALMERGE enables you to perform "Mailmerge" functions with Valdocs files.

MUSIC.LBR - Contains 1 program, 1 documentation file, and several music files. This program plays music on your QX-10.

LEDIT.LBR - Contains 2 programs, and 1 documentation file. The 2 programs are the same, one is the MBASIC source code, the other a compiled version. This program is a simple line editor.

FILMOD2.LBR - Contains a series of programs that strip out various control and sequence characters out of files created with word processors. One particular program, called TOVAL.COM, reverses this process. It transforms an ASCII file to Valdocs format. Documentation files are included.

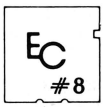
CPMPOWER.LBR - Contains one .DOC file and the program. CPMPOWER is an excellent utility that combines many CP/M commands and utilities into one program.

@.SYS - The TPM equivalent of the CP/M SUBMIT utility. This one supports manual and batch mode. All files intended to run with @.SYS must have an extension of .SUB. For more information, see your CP/M manual under SUBMIT.COM. Note that @.SYS will work in TPM only.

NULU.COM - Library utility program. See article "Dis-N-Data" in our February issue for instructions.

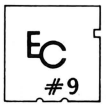
NULU.DOC - Documentation for NULU.COM.

DE-LBR.COM - A de-library utility. Use this program to extract the files from .LBR files. To invoke DE-LBR, enter "DE-LBR filename" where "filename" is the name of the .LBR file which you wish to extract files from.



Semi-integrated Business Programs.

This disk contains a semi-integrated small business package which includes a simple bookkeeping system, accounts receivable system, inventory, payroll, checkbook, various financial programs, and a small spreadsheet program (MiniCalc). All of these programs are tied together into a menu driven system. All of the programs are written in MBASIC, which will allow users with MBASIC programming skills to modify these programs to their own specific application. Also included is a READ.ME file which tells you which CP/M utility programs are recommended and required for easier setup and operation of the programs on this disk.



Bulletin Board System Programs.

This disk features a Mini-Bulletin Board System as well as a "full-fledged" BBS. The Mini-BBS program is a small BBS compared to many other public domain BBS's; however, it is a good program to use if you are interested in operating a bulletin board program and you have never done so before. All of the necessary software to operate both BBS's is contained in the MINI-BBS.LBR file. Both programs require a Hayes or Hayes compatible modem. Other files on this disk include:

DE-LBR.COM - Utility to extract files from library files.
READ.ME - Documentation on the EC disk.
FONENAME.BAS - MBASIC program that converts phone numbers to words.
BABYCASS.BAS - MBASIC program that creates cassette tape covers for your tape collection.
WEEKDAY.BAS - MBASIC program that displays your life statistics.
BURNOFF.BAS - MBASIC program that computers the hours of exercise required to loose an x amount of pounds or calories.

ZCPR1.

This disk contains ZCPR1. Briefly, ZCPR replaces part of your CP/M B2.25 operating system and gives you more functions and flexibility than the standard CP/M system. For more detailed information on ZCPR, please read the ZCPR article in the May '85 issue. This disk contains all necessary documentation and installation procedures to install ZCPR on your CP/M B2.25 system disk. Also included on this disk is the QXBANNER.BAS program, which is also listed in this May '85 issue.

Printer Picture Files.

This disk contains some fun printer picture files, featuring a huge picture of our Moon (prints out 6 feet square in non condensed mode). This picture contains almost 1 megabyte (1,000,000 characters) of disk space. The utility SQUEEZE was used to condense this file to 250K to fit on one floppy disk. Other excellent pictures include the Mona Lisa, and the Starship Enterprise. Some equally entertaining, yet less sophisticated, pictures include Alfred E. Neuman, Snoopy, and a Smurf. All necessary documentation and utilities to print these files on all Epson RX, MX, and FX printers (80 or 132 column) is included.

EPSON SOFTWARE

MBACOUNT/$89.00: Small business double entry accounting. Up to 40 asset, 40 liabilities, 40 income, 80 expense & 20 capital accounts user assignable. Prints checks, P & L, balance sheet, chart of accounts, single account details, check ledger, etc. Generates a printable detail journal for audit trail.

A/R, A/P, PAYROLL INVENTORY: These programs are available as either stand alone software or MBACOUNT integrated modules. Stand alone **$79.00 ea.** Integrated **$50.00 ea.**

PROFBILL/$149.00: Time keeping and billing for all professional people who bill at various hourly rates. Handles 400 clients, 10 partners/employees. Prints billings, statements, aged billings, partner/employee hours, etc. May be used stand alone or integrated with MBACOUNT.

SBACOUNT/$79.00: Small business single entry system. Up to 99 income and 99 expense categories, user assignable. Prints checks, P & L (month, quarter, YTD), single account details, check ledger. Generates a printable income/expense journal for audit trail.

MAILLIST/$89.00: Mailing list/filing program. 10 fields per record and up to 900 records per file, files limited only by disk space. Sort/print all or partial list by most fields on 1, 2, or 3 across labels on 80 col. printer. Search, add to, delete or edit by most fields.

MBADATA/$89.00: A data/base-filing system usable without learning any special language or control codes. Up to 253 characters, 24 fields, 900 records per file. Sort, print, display any fields in any location in any order desired. Menu driven with step by step prompts!

STANFORM/$79.00: Need to fill out pre-printed forms? Then this program was made for you! Generates programs for printing data in the proper location on any pre-printed form that will fit into your printer. Each form need be generated only once as it is saved on disk.

$FINANCE/$79.00: Personal finance, prints checks, posts to as many as 120 user assignable expense categories, posts checks & deposits, reconciles multiple checking accounts, etc. Similar program for up to 9 charge cards. Extracts/prints listings for various categories.

TOUCHTYP/$49.00: Parallels high school/college level touchtyping course. Displays typos, final score. Timed speed drill mode. Electronic typewriter mode converts your printer to a one line memory electronic typewriter with settable margins, tabs, line spacing, etc.

MSBCHART/$49.00: Prints alphabetized list of all variables & line numbers referenced in any program written in basic cross referenced to the line number where used. A godsend when writing or modifying basic programs.

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EC #12

CP/M Communications Programs.

This disk contains several of the best public domain CP/M communication programs available for the QX-10. The first, MDM798.COM, is a standard MODEM7 series modem program and is a favorite among many users. Next you will find the QXMDM.LBR file. Contained in the library file are two versions of the ever-popular QXMDM program: QXMDM.COM and QXMDM103.COM. QXMDM.COM is the modified MODEM7 program that includes features specific to the QX-10 e.g., graphics mode, CMOS Ram access. QXMDM103.COM is the same as QXMDM.COM, except that it is configured for the CR-103 modem. Additional programs within the library include two utilities which allow you to easily alter the telephone list directory and the macro (function) key assignments. Also included is a documentation file that will help those of you unfamiliar with any Modem7 series program to use the program almost immediately.

MEX is a new modem program for CP/M and derivative operating systems. It is a superset of such programs as MODEM7 and MDMxxx. New features include:

- Compatibility with MDM7 overlays.
- PHONE command allows telephone numbers to be dynamically entered into and removed from the telephone library ... telephone numbers are associated with mnemonics that may be up to 12 characters long, and may optionally specify the baud rate for each site in the list.
- KEY command supports multiple-character keystring creation and deletion, for use as dedicated function keys in terminal-mode.
- LOAD and SAVE commands allow keystring definitions and telephone number libraries to be saved to and loaded from disk files.
- READ command supports unattended sessions, under control of a disk file created with an editor (similar in concept to CP/M's SUBMIT, with enhancements).
- Greatly enhanced terminal mode.
- SENDOUT command to send strings to the modem (usually under control of a READ file).
- CALL command allows multiple sites lists to be specified, and each number to be repeatedly re-dialed any number of times.
- STAT command allows the inspection and modification of a large number of system variables.
- HELP command random-accesses a disk file to provide an on-line documentation facility that completely explains the program.
- CLONE command allows MEX to be saved to disk, with the current state intact (including any defined telephone numbers and keystrings).
- Special features to enhance MEX-to-MEX connections.
- Support for all CCP commands (rename, erase, type ...) extended to include ZCPR2-style drive/user specifications.
- Patch file allows many default options to be modified.

MBYE35.LBR, also included on this disk, contains the source (8080 assembly language) object (BYE.COM) and information file of a program that allows other computers to operate your QX-10 via modems. Some of the applications for this program include allowing you to run your office QX-10 from the comfort and convenience of your home QX-10 and allowing you to operate a BBS (Bulletin Board System) within the CP/M operating system, since this program is compatible with almost any BBS software. MBYE35 contains many features and supports many types of modems (with the exception of the CR-103), and users who are familiar with editing assembly language files should have no trouble configuring MBYE35 to their specific application.

If you know little or nothing about CP/M editors or word processors, let alone assembly language, then you may be pleased to know that we have included a configuration of MBYE35 that is already assembled and ready to run. BYE.COM, when initialized with a Hayes 1200 or clone, will allow you or your associates to call your QX-10. BYE asks for a password which is changeable, and if the password matches, then it permits users access to your QX-10's CP/M operating system, from which you can run any programs remotely.

EC #13

MBASIC Programmers Utilities.

Here are some helpful utility programs from various BBS's or other public domain sources. All of these programs are utilities for CP/M, MBASIC programmers; however, these programs should also work in MS-DOS GWBASIC with only a few minor changes.

MBEAUT.BAS is a program that will 'beautify' any MBASIC program. The program will indent FOR/NEXT loops, IF statements, program segments (like on ON...GOTO, GOTO, RETURN, and END statements), resulting in a more 'structured' and readable program.

MBXREF.BAS creates a cross-reference list for MBASIC programs. The output will display the line numbers that all variables are referenced to, as well as display where the referenced line numbers are, for example GOSUB's, and GOTO's. A good debugging tool.

MBREM.BAS is a short program that removes all remark (REM and ') statements from the MBASIC program.

BS/BMLP.LBR Preprocessors

BMLP is a macro language preprocessor. It allows you to write programs and use macros which you define, in the program or within macro library text files.

BSLP takes a source file containing special structured statements and translates it into a program containing BASIC statements.

Using these tools can help you write more concise and well structured BASIC programs. Take advantage of these features:

- Program with macros using parameters and subroutines that are maintained in libraries where they can be accessed by your other programs.
- Write free-form, indented statements without line numbers.
- Include statements from many separate files and libraries into a single BASIC program you can write and maintain your programs in small modules.
- Organize your subroutines into procedures, each with its own descriptive alpha-numeric name.
- Structure your programming with multi-line conditionals, loop and case constructs similar to those found in programming languages like C and Pascal.

When using these pre-processors, please bear in mind that since these versions are written in BASIC you are free to modify them in any manner you see fit.

EC #14

Games and Education 1985

This disk contains the following public domain educational programs as well as some excellent public domain games.

8080EDUC.LBR	- This library contains two programs that assist in learning the 8080 assembly language.
CHESS.LBR	- This program will play chess with you. The CHESS.COM program is configured for the QX-10, thus, you need not turn on your "7 bit masking" as a previous chess game required.
HAUNT.LBR	- This is a relatively small, but challenging adventure game in which your only goal is to escape the haunted house alive.
JETSET.LBR	- A Jet Simulated Electronic Trainer, or, a flight simulator program. See JETSET article, October '85 EC for more details.
LITQZ.BAS	- A literature quiz.
MCHASE.LBR	- An excellent graphic maze game where you try to eat the money in the mazes without being devoured by monsters.
SPORTS.BAS	- A sports quiz.
TDRILL.BAS	- Typing drill exercise.
TENNIS.BAS	- A tennis quiz.
TRIVIA.LBR	- Computer trivia game. The computer knows 400 questions covering several subjects. You play other humans, not the computer.
WG102.LBR	- This program generates word search games.

EC #15

CP/M Utilities

This disk contains CP/M utility programs, as well as printer utilities. Included are USER, PIP, SUBMIT, and DIR replacement programs, a menu system, two disk utility programs, and a couple of security programs.

BANNER.ASM	- Prints banner headers to your printer.
CRCK.COM	- Computes the CRC values of files to acknowledge successful downloads.
DISK77B.COM	- Disk utility program. Allows you to copy, rename, and delete programs (among other functions) from one program.
DU-V87.LBR	- Disk Utility program. This program allows you to examine and alter any area of your disk.
FRONT46.LBR	- An extremely versatile menu system. Allows you to develop "turnkey" systems using CP/M.
LOCKDEMO.LBR	- Allows you to place passwords on most any .COM program to prevent unauthorized use.
LOCKER.LBR	- Scrambles any data file or program to prevent unauthorized use.
NULU.COM	- Allows you to create, disassemble, and alter LBR files.
PATCH18A.LBR	- Excellent user friendly disk utility program. Allows you to change disk sectors, files, and memory.
PRINT.COM	- Prints files to your printer like the larger computers do; automatically prints a banner page, automatically skips the perforations and it also numbers page's. Excellent utility if you list a number of files to your printer.
RPIP.ASM	- Fixes an unpopular quirk in PIP.COM. Allows you to do multiple file transfers to more than one disk without the need to re-load PIP each time.
SD-78.LBR	- Super Directory program. Contains many functions such as writing your DIR to files, filename searches, etc.
SUPERSUB.LBR	- A total replacement program for CP/M's SUBMIT.COM program. Supersub allows both interactive and .SUB file mode, nesting, and built in help, among other features.
U.COM	- Allows you to move among user areas.
UNPRO.LBR	- Unprotects BASIC programs saved using the "P" option.

Disclaimer: All of the programs and documentation on these disks as well as those on the following pages are known to be public domain and no warranties are expressed or implied. There are no guarantees with public domain software. Public Domain programs are programs written by other users, for public use at little or no charge, other than that for handling, mailing and materials. All of the programs have been tested on the appropriate Epson Computer and are known to run.
Note: We imply no similarity, or advise any comparison, between public domain software and software that is commercially produced. A knowledge of CP/M and a library utility (LU3, DE-LBR or NULU) is required to utilize "The Best of CP/M" and a beginning knowledge of MS-DOS is recommended to utilize "The Best of MS-DOS" disks.

Special EpsonConnection Offer

Please circle the Disks or Tapes of the Month you are ordering.

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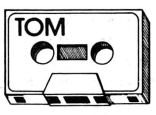

The Best Public Domain Software of 1985

The EpsonConnection is proud to present a special collection of CP/M and MS-DOS public domain programs of extraordinary quality and performance.

The Best CP/M Software of 1985, is a 3 disk, 23 program collection which includes full screen text editors, data base management programs, CP/M utilities, file manipulation utilities, games, communications, printer, and MBASIC programs. Please note that since this is "The Best CP/M of '85 Collection" many of the programs have previously been offered on individual "Disk's of the Month" throughout the year; however, there are several new programs as well.

We would like to introduce **The Best MS-DOS Software of 1985**, a three disk set which has been tested to run on both the QX-10 w/QXPC2 board, and the QX-16.

Each of these public domain sets is provided on 3 quality diskettes and the price does include shipping, postage, and handling. **To order the Best of CP/M, or The Best of MS-DOS**, please complete the order form below and return it with your check or money order for $30 per set to: the EpsonConnection, Best Disk Service Department, P.O. Box 14027, Detroit, MI 48214.

DISKS

Best MS-DOS Public Domain Software of 1985

PC-WRITE	A very sophisticated full screen text editor.
PC-FILE	A versatile and powerful data base program.
FREECALC	An easy to use spreadsheet program.
PC-CAT	Helps you keep your MS-DOS diskettes organized.
MEMBRAIN	Allows you to create a RAM disk on your computer.

Best CP/M Public Domain Software of 1985

Editors:

VDO25.LBR	Full screen RAM based editor similar to Wordstar.
E.LBR	Full screen RAM/disk based editor.

Data Base Management:

CREATOR.LBR	Creates MBASIC data base programs.
DIMS.LBR	Resembles a scaled down version of dBASE-II.

Utilities:

RPIP.ASM	Replacement for CP/M's PIP program.
FRONT46.LBR	Excellent MENU program.
SUPERSUB.LBR	Replacement for CP/M's SUBMIT program.
ZCPR1.LBR	Replacement for CP/M's CCP.

File Utilities:

PATCH18A.LBR	Alters memory, files, and disk tracks.
LOCKER.LBR	Protects programs and data files.
NULU.COM	Used to create and disassemble .LBR files.
NULU.DOC	Instructions on using NULU.
YANC.COM	Yet Another Catalog Program. Organizes disks.

Games:

ALIENS.LBR	A Favorite. Similar to Space Invaders.
CHESS.LBR	Play CHESS with your computer.
LADDER.LBR	Similar to Donkey Kong.
MCHASE.LBR	Similar to PacMan.

Modem:

MEX.LBR	Modem Executive. The BEST PD modem program.
QXMDM.LBR	Modem7 program and utilities. The most popular PD modem program. Includes version for the CR-103.

Printer:

PRINT.COM	Prints files to your printer with a banner size heading, auto-perf skip, and page numbering.
UNSPOOL.LBR	Allows you to print files, and access the computer at the same time.

MBASIC:

QXCKBOOK.LBR	Excellent checkbook management program.
JETSET.LBR	Flight simulator.
STARTREK.LBR	A favorite among mainframe computer users.

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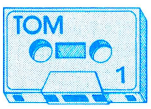
EpsonConnection

Tape of the Month Series

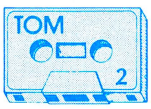


PXMDM740.COM - Christensen protocol modem transfer program (it is necessary to use CONFIG to set up the serial port), this program allows uploading and downloading of program files. Thanks to Chris Rhodes for this nice adaptation for the Geneva PX-8.

EP44.COM - WordStar patch program allowing output of Portable WordStar files to non-Epson printers. Not guaranteed to work in every instance, but capable of solving most problems.

BATTERY.COM - Tells the amount of PX battery charge remaining.

MODEM2.COM - A very small (6K) modem program supporting Christensen Protocol. A nice space saver.



ELIZA.COM - Infamous psychological game.

PLAYER.BAS - BASIC program allowing the playing of an audio microcassette tape while using the PX.

PLAYER - Documentation for the above program.

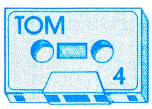
UNERA.COM - Program allowing recovery of erased files (will work on the microcassette as long as the directory has not been written over, or the tape INITialized).

EPXMD3.COM - A version of EPX740.COM modem transfer program configured for the internal modem of the PX.

CPMPOWER.COM - A handy utility program taking up less than 8K.

CPMPOWER.DOC - Documentation for CPMPOWER.COM.

NI.COM - A drive directory utility. Displays alphabetical listing along with file sizes.



UNLOAD.COM - A Simple file transfer program that converts ANY file into HEX format and PIPed to another computer. Then use LOAD.COM to convert the file back to its original state.

UNLOAD.DOC - Documentation file for UNLOAD.COM

LOAD.COM - To use with UNLOAD.COM

MTINIT.COM - This program performs the DIRINIT function found in the PX system menu. Use with care, for you can easily wipe out a tape. Very useful for tape copying when used in SUBMIT files.

MTREMOVE.COM - This program does the REMOVE function of the PX system menu. Use with MTINIT in SUBMIT files for tape copying.

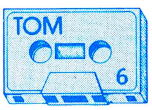
SWEEP.COM - A Utility program that will correctly read file attributes on ALL drives (including H). Performs many file manipulations, including squeezing and unsqueezing files.

FINDBAD.COM - A Utility program that locates and locks out bad disk sectors. PF-10 owners using single sided disks will find this very useful.

FINDBAD.DOC - Documentation file for FINDBAD.COM.

There is only one program on this month's tape, but its a good one, the venerable Star Trek game, configured especially for the PX. Modification for the PX was done by Roy Goodloe of Epson America Southwest.

We are currently working on adapting PX programs from a Japanese publication, and will have some of these available for Tape of the Month selections in the near future.

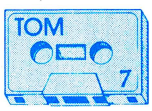


WSLOAD.COM - Used with CONFIG.BAS, this is a Portable WordStar printer patch program permitting user configuration for the particular printer employed.

CONFIG.BAS - Used with WSLOAD.COM, See above.

WSDIR.COM - Another WordStar patch program allowing you to view the drive directory while in Portable WordStar.

WCOUNT.COM - This handy utility gives the total number of lines and words in an ASCII file.



This tape contains the program, TOUR. This is an outline processor which is designed to assist you in collecting and organizing your thoughts. It has a multitude of uses including: outlining your writing, project breakdown, desk calendar, software design, and the preparation of an agenda. Due to the size of the program (26K), you will need one of the RAM disks, the Multi-Function Unit, or the PF-10 floppy drive. A hard copy of the 48K documentation file will be included.

This tape contains the most versatile communications program available for use on the PX-8 -- MEX or Modem Executive Program. The program is set up to use either an external modem or the internal modem of the PX. Because the program is 26K we would not recommend its purchase on tape for use on a PX-8 without some type of memory expansion (see special ROM of the Month, August '85 issue if you wish to use this excellent program and need the extra memory).

NULU.COM	-	Excellent library utility for creating and manipulating library files.
LRUN.COM	-	Permits running of .COM files contained in a library file.
MBEAUT.BAS	-	Will 'beautify' a BASIC program by indenting subroutines to make the program easier to read.
MBAS/XR.BAS	-	Will make a list of the line numbers for variables in BASIC (requires a printer).

These programs require some type of additional RAM memory to function, either the 60K or 120K RAM disk or the Multi Function Unit.

LASM.COM	-	Public domain version of ASM.COM. Documentation assumes familiarity with ASM, so we would recommend you purchase a CPM reference book to make the fullest use of this program (see RX for PX October '85 issue for further suggestions).
LOAD.COM	-	CPM loader, for use with LASM.COM.
PFK.ASM	-	Function key redefinition program contributed to the public domain by David Kozinn (see RX for PX October '85 issue for more details).
PATCHPX.COM	-	22K Version of the DDT like program installed for the PX-8. Still uses a 24 line screen, requiring you to use CTRL-cursor key to scroll up and down the display.

MFT.COM	(4K) -	A handy utility that enables mass file copying with one drive systems. Very useful for PF-10 owners.
PASSWORD.COM	(2K) -	Password protect your important programs.
RPIP.COM	(8K) -	Allows you to change the disk (PF-10), without interrupting the pip command.
SCRAMBLE.COM	(2K) -	Mix the contents of a file so thoroughly that only your secret code word will restore it to working order.
VDE-PX.COM	(6K) -	A fully functioning word processor with features such as find, block operations, & formatting. (This will fit on a ROM with MEX, giving you communications and a word processor on the same ROM).
SUPERSUB.COM	(3K) -	Offers the same capabilities as SUBMIT with the added feature of 'run-time operation' so that creation of a .SUB file is not necessary.

PLEASE remember that Tapes of the Month should be treated like any software you obtain. The FIRST thing you should do when you receive a Tape of the Month is to make a backup copy.

DISCLAIMER: All of the programs and documentation on the Tape of the Month series are known to be public domain and no warranties are expressed or implied. There are no guarantees with public domain software. All of the programs have been tested on Epson hardware, and are known to run on the Epson model they are intended for. Public Domain programs are programs written by other users, for public use at little or no charge, other than the charge for mailing and materials. Note: We imply no similarity, or advise any comparison between public domain software and software that is commercially produced. A beginning knowledge of CP/M is also recommended to utilize Tape of the Month software.

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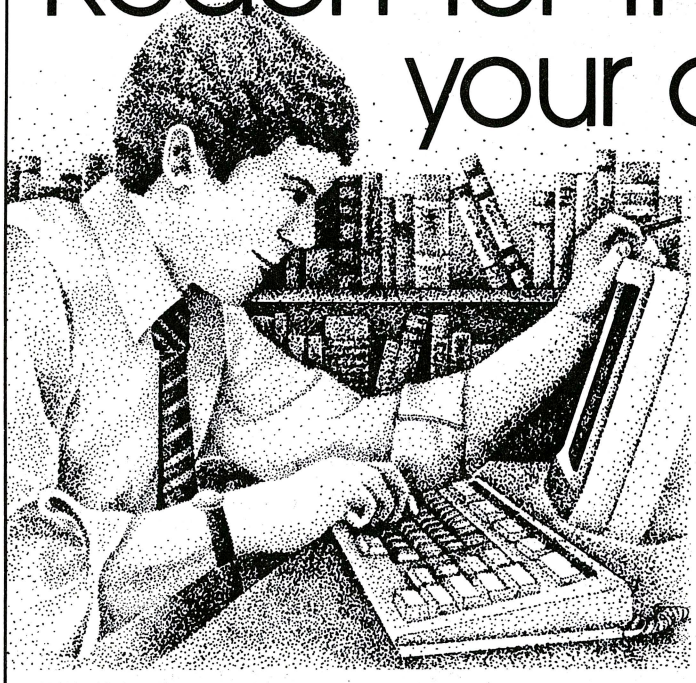

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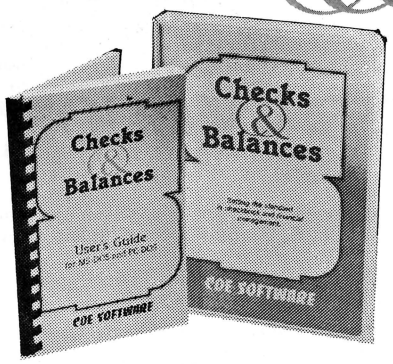

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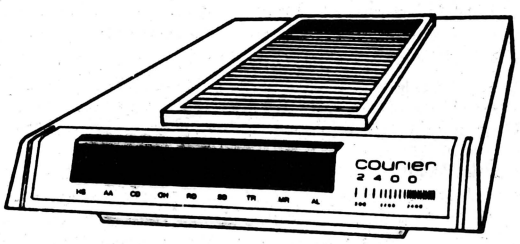

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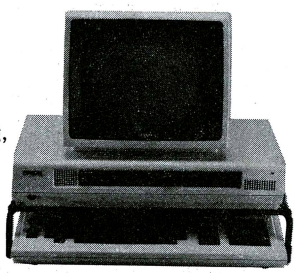
- "A must for every computer..." Peter McWilliams, author *The Word Processing Book*
- "SmartKey is a utility I recommend... ...The result is less frustration and greater speed and accuracy in entering data." John D. Yoder, PhD *Reviewer — Epson Connection*
- "...SmartKey is considerably easier to learn ...SmartKey would be my choice..." Bob Hermann *Reviewer — Epson Connection*

Central's super priced **$49** *SmartKey II* combo pak includes *SmartPrint II Plus*, a program that greatly enhances the operation of dot matrix printers, and a free copy of Paul Golding's $15.95 book, *Screen Smarts, The Computer Tamer's Guide*. This book tells how you can use SmartKey to turn your computer into a supercharged mean machine. Order today to get this hard hitting $115 software & book combo for only $49.

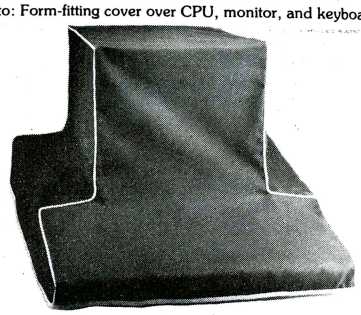
Perfect Epson Stand



Simple, strong, sturdy, safe. These words describe an attractive stand that provides a perfect spot to place your Epson computer and monitor on. This stand is made from rounded, steel rods covered with a thick, shiny, soft, black polymer material that protects your Epson and table top from scratches. Unlike flat wood or acrylic panels used in other stands, the tough supporting rods of the Smart Stand (TM) do not obstruct air flow. Since your Epson is lifted off the table top and fully supported by this stand, air flows freely all around your computer to help keep it cool. When you need more space, simply slide the keyboard completely under the stand to create a working area on your desk. The Epson Smart Stand is a super value at $26.95. Try it for 15 days risk free. If not completely satisfied, return it for full refund. Matching 80 or 132 column printer stands are only $21.95. Order today. Get it fast.

Introducing A Classic Form Fitting Epson Cover

Photo: Form-fitting cover over CPU, monitor, and keyboard.



At last, the classic Epson dust cover you'll be proud to own and use. This first rate computer cover is made from a premium, lint free, static free, washable, free breathing, and fade resistant sailcloth. It comes in a rich looking Navy blue or Sand. The Navy cover has a smart contrasting silver gray piping and trim that adds a superior finished look. Not to be outdone, the Sand cover is handsomely finished in a rich chocolate piping and trim.

Matching sailcloth covers for all Epson and ComRiter printers: $15.95. Please indicate make and model of printer.
New. Special 2-piece QX-10 cover: $21.95 per set.

For a limited time only, your price for this factory direct, custom made, one-piece sailcloth Quality Cover is $18.95. When ordering remember to indicate color preference. This special low price is subject to change. You must be completely satisfied with your purchase of this cover or we will refund your money immediately. Order today.

- Quality tailoring
- Easy care fabrics
- Attractive colors
- Professional appeal

Richly tailored inside and out. Look inside any of our Quality Covers; see the ultimate finishing; we use machines that sew with 3 needles so that edges will not unravel or shed lint. We stress perfection because you deserve the best. Compare for long-lasting satisfaction.

FACTORY DIRECT

Letter Quality

Say goodbye to correspondence qual
high-resolution, proportionally spa
Font provides fonts in sizes from
Roman, Bold, Italic, Script, Old En
low-cost Epson (MX, RX, FX) and
Font is an easy-to-use software pa
compatible systems; no special hardv

Actual sample produced by an MX-80 and Fancy Font.

Incredible Printing Machine

Your Epson printer is going to get even better. *Fancy Font* can make it into an incredible printing machine. The *Fancy Font System* is a software program that turns the bits and bytes generated by your computer into over 30 font sets in sizes from 8 to 40 points that can be printed on any Epson MX80 with Graftrax, Epson FX or RX printer, or Gemini 10X printer.

Fancy Font styles include Roman, Bold, Italic, Script, Old English, and more. In addition, custom forms, invoices, labels, signs, foreign languages, mathematical notations, view graphs, resumes, newsletters, brochures, complete manuals, invitations, place cards, and high-resolution, proportionally spaced, letter quality business and personal letters can all be printed on your Epson printer with *Fancy Font* at the helm. *Fancy Font* is a product of SoftCraft Inc. You may have seen SoftCraft's national ads. They are printed with *Fancy Font* on an Epson printer. The ad is powerful visual medicine. The list price for the fully documented *Fancy Font System 2.0* is $180. Central's price is only $149. Order *Fancy Font* today and add an amazing sparkle of creativity to all your printed materials. Please indicate name and model of your printer when ordering. *Fancy Font* will make your Epson printer and Valdocs or CP/M word processor come alive. It's magical.

MORE ON NEXT PAGE

Software in Review

MTBasic. Basic compiler. Write and compile in basic that allows you to program windows. Do multi-processing. All this on your CP/M Epson. Rave reviews. Low Price. $47.

Decision Analyst. Helps you make decisions where from 2 to 12 alternatives exist. Can save a business or build one. Professional printed reports. Powerful helper. Use it to make difficult career decisions too. Decision Analyst makes complex decision making easier. Consultants charge hefty fees for doing what this program does automatically. Comes with complete manual and tutorial. $139.

DateStamper. Date and time stamp all your CP/M files. You'll know exactly when you last worked a file. Keeps the confusion down. Helps to organize your record keeping. DateStamper can help you prove to the IRS that you use your computer in business. $44.

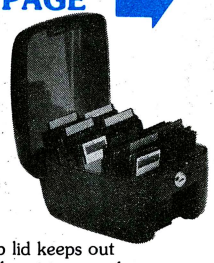
Reading Professor. Speed reading teacher. Teaches you to chop through text. Read at a glance and retain more too. Tested & proven effective. Great teacher. $57.

Word Finder. Puts 90,000 synonyms at your fingertips. Works from within WordStar. So, easy and helpful it's amazing. Imagine writing feverishly. Place your cursor on a word in your letter that you want a synonym for. Hit the escape key twice. A list of synonyms instantly appears along top of screen. Place the cursor on the word you want to see in your file. Hit the return key. The word in top of the screen automatically replaces the word in your file automatically. Right before your eyes. Incredible. Priced right too. $69.

FileBase. Easy to use database manager. Keeps records or makes mailings a snap. Sort and do all kinds of things to mailmerge records. Makes WordStar and Mailmerge a pleasure to use. Don't use Mailmerge without it. $99.

SmartBrain. The easy to use CP/M outliner and idea processor. Super tool for all writers. $69.

Lockable Diskette Defender

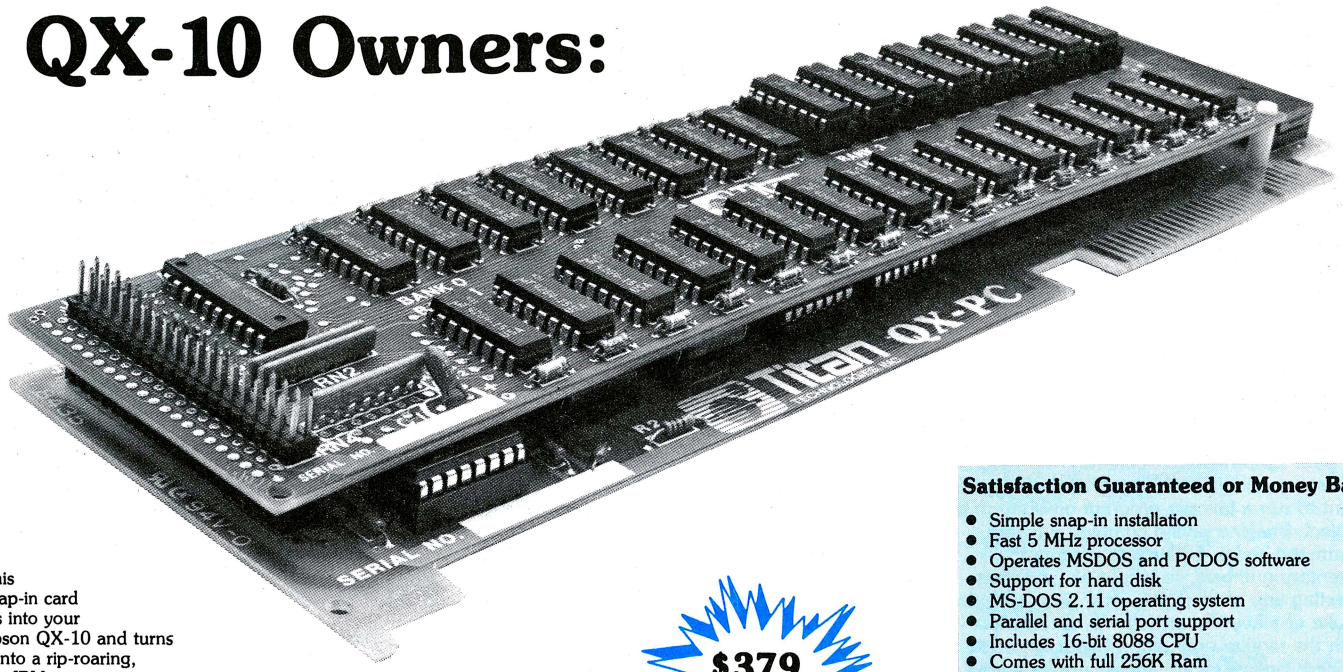


Handsome, sturdy, smoke-tinted acrylic tray holds 70 Epson-size diskettes. Flip-up lid keeps out dust, debris, and moisture, and locks securely to guard your important work. Comes with 7 dividers with index tabs for easy filing and to keep floppies upright to prevent bending, warping, and scratching. Tough and secure metal lock never comes in contact with diskettes because it is enclosed in a special plastic housing. Super value at $22.95 for one, or $21.00 each if you buy 2 or more. Keep prying eyes and sticky fingers away from your data. Order today.

LQ 1500 Users

Compare and save. Epson's LQ 1500 ribbon gives you 3,000,000 characters. Our top quality LQ 1500 ribbon produces 4,500,000 characters. Epson's list price is $17.50 per ribbon. Our price is $49 for box of six ribbons. In stock. Order today. Complete Satisfaction Guaranteed.

QX-10 Owners:



This snap-in card fits into your Epson QX-10 and turns it into a rip-roaring, fast IBM-type computer.

$379
256K

See Bonus Offer Below!

Satisfaction Guaranteed or Money Back

- Simple snap-in installation
- Fast 5 MHz processor
- Operates MSDOS and PCDOS software
- Support for hard disk
- MS-DOS 2.11 operating system
- Parallel and serial port support
- Includes 16-bit 8088 CPU
- Comes with full 256K Ram
- Expandable to 512K with auxiliary unit
- Includes complete operating manual
- Complete 12 month Titan-factory warranty
- All units fully supported by Titan

To Order Call
Central Computer Products
Toll Free:
800-533-8049 USA
800-624-5628 CA

Say Goodbye to IBM PC Compatibility

Production of the QX-PC2 Has Stopped Forever

It's true. Titan Technologies, Inc. has stopped making the QX-PC2, the popular co-processor board that gives your QX-10 IBM PC compatibility at a fraction of the cost of an IBM machine. That's it. No more QX-PC2 boards will be made. This is your last chance to get this powerful co-processor. It lets you run super popular IBM-type business programs like Lotus 123, Symphony, dBase III, Harvard Total Project, WordStar, Framework, and thousands of other IBM-type programs.

Slip An IBM PC Into Your Epson

Putting the QX-PC2 co-processor board into your computer is like slipping a brand new IBM PC into your machine. The difference is you save big bucks. The QX-PC2 co-processor give you IBM PC compatibility at less than one-fifth the price of an IBM PC. That means you can buy the QX-PC2 co-processor, take the family out to dinner, and put money in the bank too.

You gain a lot. The QX-PC2 co-processor lets you use tons of IBM PC software including the powerful business applications that many professionals use. And best of all, you don't lose a thing. You can still use Valdocs and your CP/M programs too. Like thousands of satisfied QX-PC2 users, George Malpass, a fellow *Connection* subscriber reports, "I hardly ever use anything else....I use...Lotus 123, dBase III, SuperProject, and PC-Write....I haven't found anything that it doesn't run." By the way, PC-Write is an IBM-type public domain "shareware" program. George says, "I got it free....It leaves Valdocs in the dust." Get your QX-PC2 fast!

Hurry. To avoid disappointment, order a fresh packed, factory sealed Titan QX-PC2 co-processor today. It comes with a full one year warranty. You don't have to worry about service or support. If something goes wrong, Titan will fix it free. Price is right too.

There's nothing like the QX-PC2. It's gotten rave reviews in *Epson Connection* and other publications. Thousands of Epson users are running IBM-type software on this "computer" that fits right into your QX-10. The time is right to start experiencing 16-bit IBM-type computing. In fact, after current stocks are sold out, your chance to get the QX-PC2 is gone forever.

QX-PC2 Owners, Look at This

If you already own a Titan QX-PC2, you're not forgotten in Central's holiday season special. Until January 31, 1986 you can get a 256K second auxiliary memory board for half price. And that's not all! If you order by January 31, we'll throw in the Titan Ram Disk Software, and Titan Print Spooler Software at no extra charge. Recently, *Epson Connection* magazine reviewed these Titan software tools and called them "excellent". The ram disk and print spooler software are regularly $39 each. But if you order by January 31, Central Computer will give you this $78 value absolutely free. That's right, free. You pay nothing. Incredible value.

Quantities Are Limited, So Hurry

Please order today. Pick up the phone, ask Central to reserve your QX-PC2 or 256K auxiliary board now. Remember, Titan Technologies has stopped production. When current inventory is sold out, this product will not be available anywhere. Don't spend thousands of dollars on an IBM-type computer in a fast-changing market when you can get one on a card, plug it into your Epson QX-10, and get identical results. Order today to get the QX-PC2 board fast. In stock, ready for immediate shipment. Last chance. Order today.

QX-PC2 HOLIDAY SEASON PRICING

Description	List	Central
256K QXPC2	$670.00	$379.00†
512K QXPC2	$995.00	$549.00‡
256K Aux	$399.00	$199.00‡
Ram Disk Software	$ 39.00	$ 36.00
Printer Buffer Software	$ 39.00	$ 36.00

† Order the 256K QX-PC2 before January 31, and receive your choice of **either** the Printer Buffer or Ram Disk Software free. Please specify choice.

‡ Order the 512K QX-PC2 board or the 256K Ram Aux board before January 31, and receive **both** the Ram Disk and Printer Buffer Software free.
— All units include full 12 month factory warranty.

Attention: This is your last chance to own this fine product. These prices are holiday prices, and are subject to change. Quantities limited. Orders filled on a first come, first served basis. To avoid disappointment, please order immediately. Thank you.

Titan is a registered trademark of Titan Technologies, Inc.
QX-PC is a trademark of Titan Technologies, Inc.

Check Your MailBox — Central's Free 64 Page Catalog is Coming Next Month

Toll Free Order Desk
800-533-8049 USA
800-624-5628 CA

CP/M Prod. Description		List	Central
QX-10 Software			
ASHTON TATE			
dBase II		$495.00	$329.00
ATI TRAINING DISKS			
CP/M		$ 39.95	$ 33.00
MBasic	**Training software.**	$ 39.95	$ 33.00
Multiplan	**Speeds learning.**	$ 75.00	$ 54.00
SuperCalc	**Gives fast results.**	$ 75.00	$ 54.00
Wordstar		$ 75.00	$ 54.00
BORLAND INTERNATIONAL			
Turbo Pascal 3.0		$ 69.95	$ 58.00
Turbo Toolbox, Software Tools		$ 54.95	$ 44.00
Turbo Tutor, Step by Step		$ 34.95	$ 32.00
CDE SOFTWARE			
Checks & Balances 3.4		$ 74.95	$ 64.00
CHUCK ATKINSON PROGRAMS			
Quick Check Plus AR		$195.00	$155.00
CONSULTANT SYSTEMS			
The Real Estate Consultant with The Creative Loan Consultant		$399.00	$349.00
Don't buy or sell property without this software			
DIGITAL MARKETING/PRO TEM			
Bibliography		$ 99.00	$ 89.00
Hyper Typer, Typing Tutor		$ 39.95	$ 32.00
Milestone, Project Manager		$ 99.00	$ 89.00
Random House Speller		$ 50.00	$ 47.00
— Call for WordStar enhancing DM/PT products			
FYI, INC.			
FYI 3000		$395.00	$295.00
INFOCOM			
Zork I		$ 39.95	$ 37.00
Zork II & III each		$ 44.95	$ 42.95
PlanetFall		$ 39.95	$ 37.00
Witness		$ 39.95	$ 37.00
— all other Infocom series, call for prices			
MICRONOVA	NEW		
FontStar, Print Bright WordStar		$ 49.00	$ 44.00
MICROPRO			
WordStar		$495.00	$219.00
Mail Merge		$ 99.00	$ 89.00
MICROSOFT			
MultiPlan		$195.00	$139.00
MBasic Compiler		$395.00	$299.00
MICROSOLUTIONS			
Uniform		$ 69.95	$ 57.00
reads & writes 80+ computer formats & MSDOS			
OASIS SYSTEMS			
The Word Plus		$150.00	$105.00
Punctuation and Style		$125.00	$ 95.00
PEARLSOFT			
Personal Pearl		$295.00	$125.00
QUIC-N-EASY PROD.			
Q-Pro-4		$595.00	$395.00
Data base manager with multikey file indexing			
SAN FRANCISCO COMP			
Power! CP/M Tamer		$169.00	$ 94.00
DocuPower!		$169.00	$ 94.00
SOFTWARE TOOLWORKS			
Eliza		$ 24.95	$ 23.00
Word Wiggle		$ 29.95	$ 28.00
MyChess		$ 34.95	$ 28.00
Reading Professor, Speed Read		$ 59.95	$ 57.00
— all other Toolworks programs, call for prices			
SORCIM			
SuperCalc 2		$295.00	$228.00
TELION SOFTWARE			
Free Filer		$ 49.95	$ 46.00
Language Tutor	NEW	$ 49.95	$ 46.00
Memory Trainer		$ 49.95	$ 46.00
WRITING CONSULTANTS			
Word Finder, 90,000 Synonyms		$124.00	$ 69.00
STAR SYSTEMS			
The Accounting Partner (TAP)		$395.00	$262.00
Accounting Partner Integrated		$795.00	$529.00
Upgrade TAP to TAP Integrated		$400.00	$343.00
Supplies			
3M DSDD Diskettes		10/box	$23.00
3M Head Cleaning Kit		$ 32.00	$ 21.00
Dysan DSDD Diskettes		10/box	$ 34.00
PowerMax, 250 Watt UPS		$459.00	$399.00
Finger Print "Letter Writer"		$ 79.95	$ 74.00
QX-10 User's Guide, Hansen		$ 17.95	$ 15.95
Screen Smarts, Computer Tamer		$ 15.95	$ 12.95

Prices, specifications, and offers subject to change without notice.

Money Management is the Price You Pay for Success

Computers crunch numbers. It's that simple. If you're not using your computer to manage your money, you're missing a chance to put pencil-sharp accounting skills at your fingertips. Chuck Atkinson's **Quick Check** software program is a home and small business money manager so easy to use that if you can push a key it will help you computerize your checkbook.

Quick Check tells you exactly where your hard-earned money goes. *Quick Check* lets you set up your own expense and income codes, or use built-in codes, so you can start entering checks and deposits immediately. You don't have to know about accounting to use *Quick Check*. This common sense program gives you instant fingertip access to a wide range of information about your income and expenses. Single keystroke commands help you pay bills, keep track of deductible and non-deductible items, correct mistakes, change dates, and reconcile your checkbook. This program even prints checks and addresses them automatically. *Quick Check* is written in CB80 native code. It is fast, accurate, and forgiving. No slowdown for sorting.

Home and small business accounting can't get any easier than this. Please don't spend another moment thinking about computerizing your checkbook. You can start getting that checkbook in shape now. The list price of *Quick Check* is $95. Central's current price is $79. Order today.

Attention: The rewards of using *Quick Check* include saving time, money, work, discomfort, and worry about your money. *Quick Check* is absolutely the easiest full-featured money manager, check printer, and budget organizer available. Bar none.

Text Filing Machine

Now, Epson users can turn their computers into powerful text filing machines. *SuperFile* is a textual matter database manager unlike any other. It puts you in control of your information. It allows you to easily store and retrieve notes, letters, random thoughts, contracts, depositions, invoices, new product information, sales reports, reference articles, scripts, abstracts, bibliographies, customer profiles, photo or slide locations, and much more. *SuperFile* accepts as many as 65,000 entries per database; allows 512,000 keystrokes per record, each of which can have up to 250 keywords; and indexes information you've stored on as many as 255 diskettes per database. Powerful.

Input for a *SuperFile* database comes from your word processing Valdocs, CP/M, or MSDOS program, so you can easily include information you already have into a database without having to re-key it. No fancy fields to define. This is a completely free-form database system. No programming language to learn. There's nothing difficult here. You can be up and running within minutes. *SuperFile* uses logical searching procedures to find your information fast. Tell *SuperFile* what information you want, and it searches from 60 to 400 entries per second. Save yourself the time and effort of filing and cross-filing information by hand or in overly structured data fields. The list price of *SuperFile* is $195. Order today to get *SuperFile* at our current low price of $155.

Full Power Computing

T/Maker Integrated is a highly acclaimed powerhouse program that can turn your CP/M Epson into a computing workhorse. At last, you can enjoy productive computing like never before. Imagine doing full-featured word processing, relational database management, spreadsheet analysis, horizontal bar chart graphics, and checking your spelling all within the same program. No more switching back and forth between barely compatible programs to accomplish these simple tasks. *T/Maker Integrated* is universally acknowledged as a unique integrated software system that is just plain easy to learn. Now, there is an alternative to doing things the hard way. *T/Maker* can put the hidden and largely untapped power of your Epson at your command. *T/Maker Integrated* is regularly $450. Central is proud to offer this outstanding package for the low, low introductory price of $189. Yes, this includes the entire feature-packed T/Maker package, so please treat yourself to this excellent super productive software today. Experience the power of true software integration on your Epson. Order T/Maker today. Offer may not repeat, so order now.

Central Computer Products

Consult the Oracle

NEW!

Wow! The *I Ching* on computer. There's nothing like it. This great self-reflection aid can help you get in touch with your subsconscious mind. The *I Ching* or *Book of Change* is not a party game. But it's highly entertaining. Ask it for advice and receive it in seconds. Amazing.

The *I Ching* or *Book of Change* seems to give you the ability to peer into the future. Helps you see where you've been and where certain courses of action could take you. In this sense, the *I Ching* is like a trusted oracle. Someone to consult in time of need. You'll marvel at the I Ching's depth. It's both mysterious and practical. If you've had contact with the *I Ching* before, you'll find this software faithful to the original manuscript. The only difference is you consult this program through touching the spacebar to develop your hexagrams. Very easy to use. The list price of Software Country's *I Ching* or *Book of Change* program is $39. Central's price is $36. Order today to get fast.

CENTRAL COMPUTER PRODUCTS
330 Central Avenue, Dept. 50
Fillmore, California 93015
(805) 524-4189

Dear Central,
Please send me the items listed below. I want fast friendly service. If I have ordered the QX-PC2 or Aux board before Jan. 15, remember to send me my free Ram Disk and/or Printer Buffer software. (See offer.) My check, money order, or credit card number is enclosed.

Description	Price

Epson Model _____ Sub Total _____

CA Resident 6% Tax _____

FIRM MONEY BACK GUARANTEE ORDER WITH CONFIDENCE

Postage & Handling $ 3.00

Total $ _____

☐ Navy blue Cover ☐ Sand Cover
☐ Send free catalog ☐ Free software with QX-PC2
☐ Check enclosed ☐ Money Order enclosed

☐ Visa/Mastercard # _____

☐ AmerExp Card # _____

Exp. Date _____ Sig. _____

Name _____

Address _____

City _____ State _____ Zip _____

Credit card phone orders accepted. **Call Toll Free.**
To order by mail use coupon, letter, or photo copy. Thank you.

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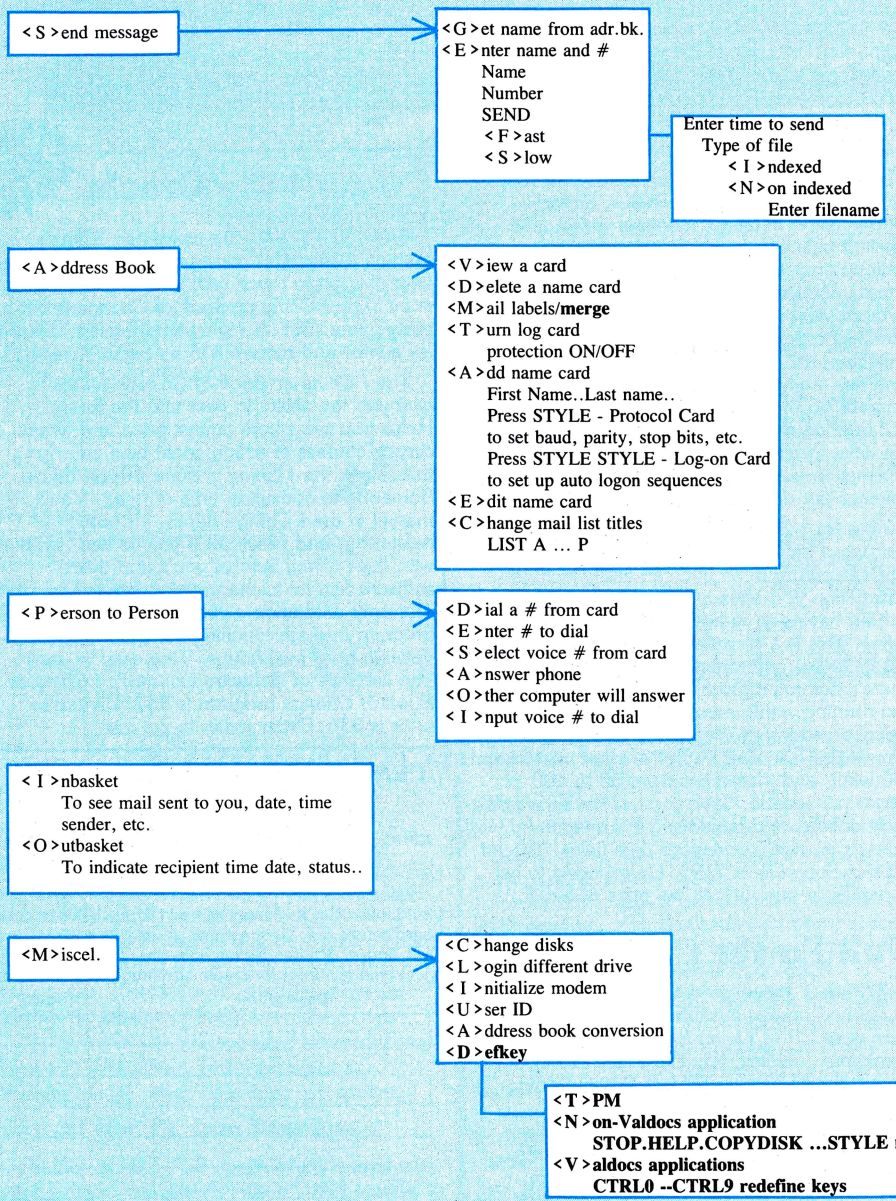
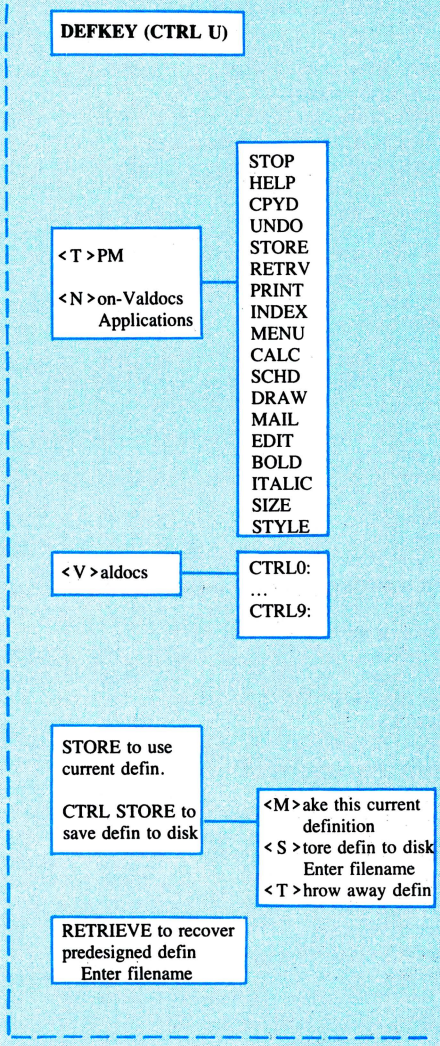
VALDOCS MAIL MENUS

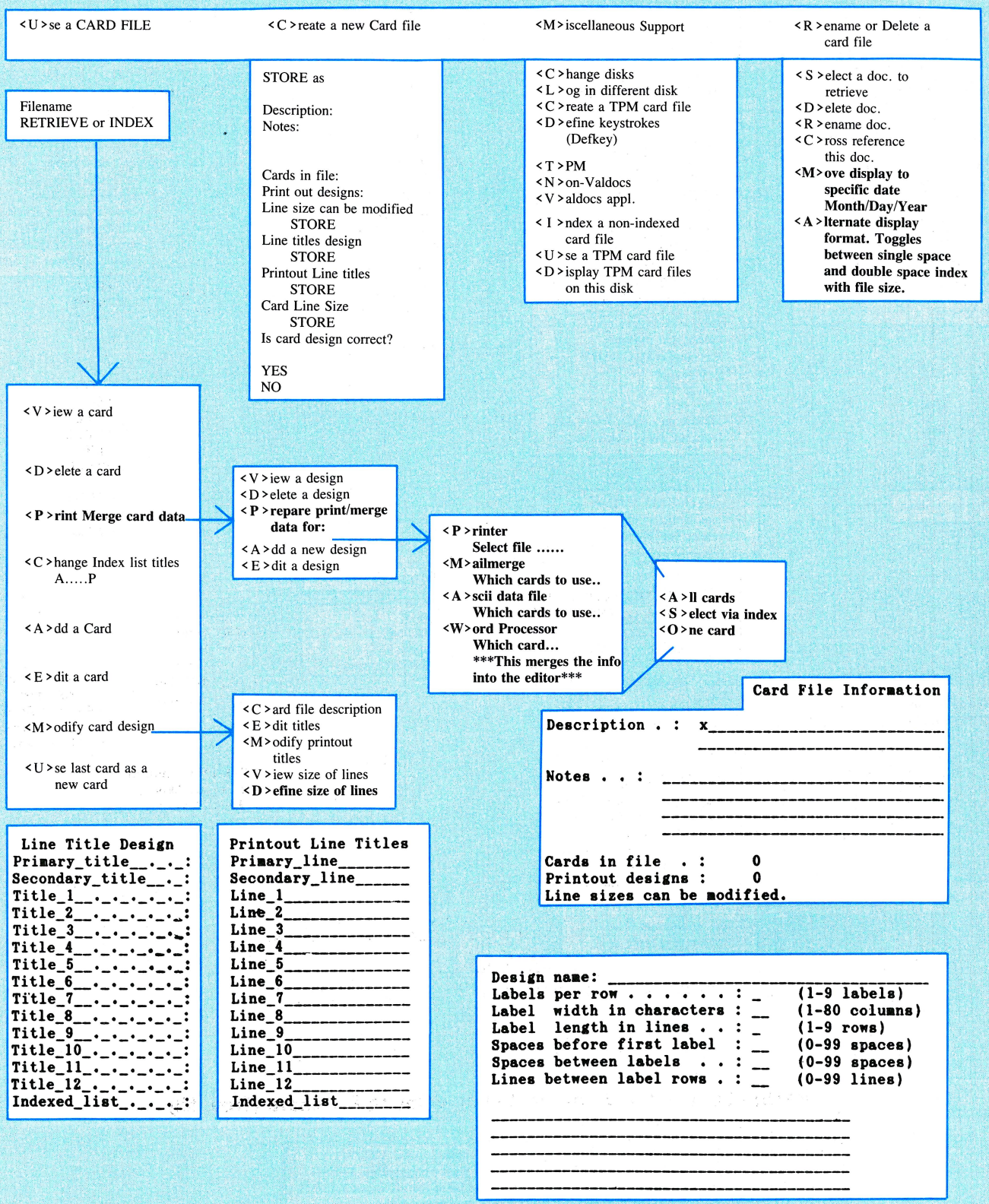


VALDOCS DEFKEY MENUS

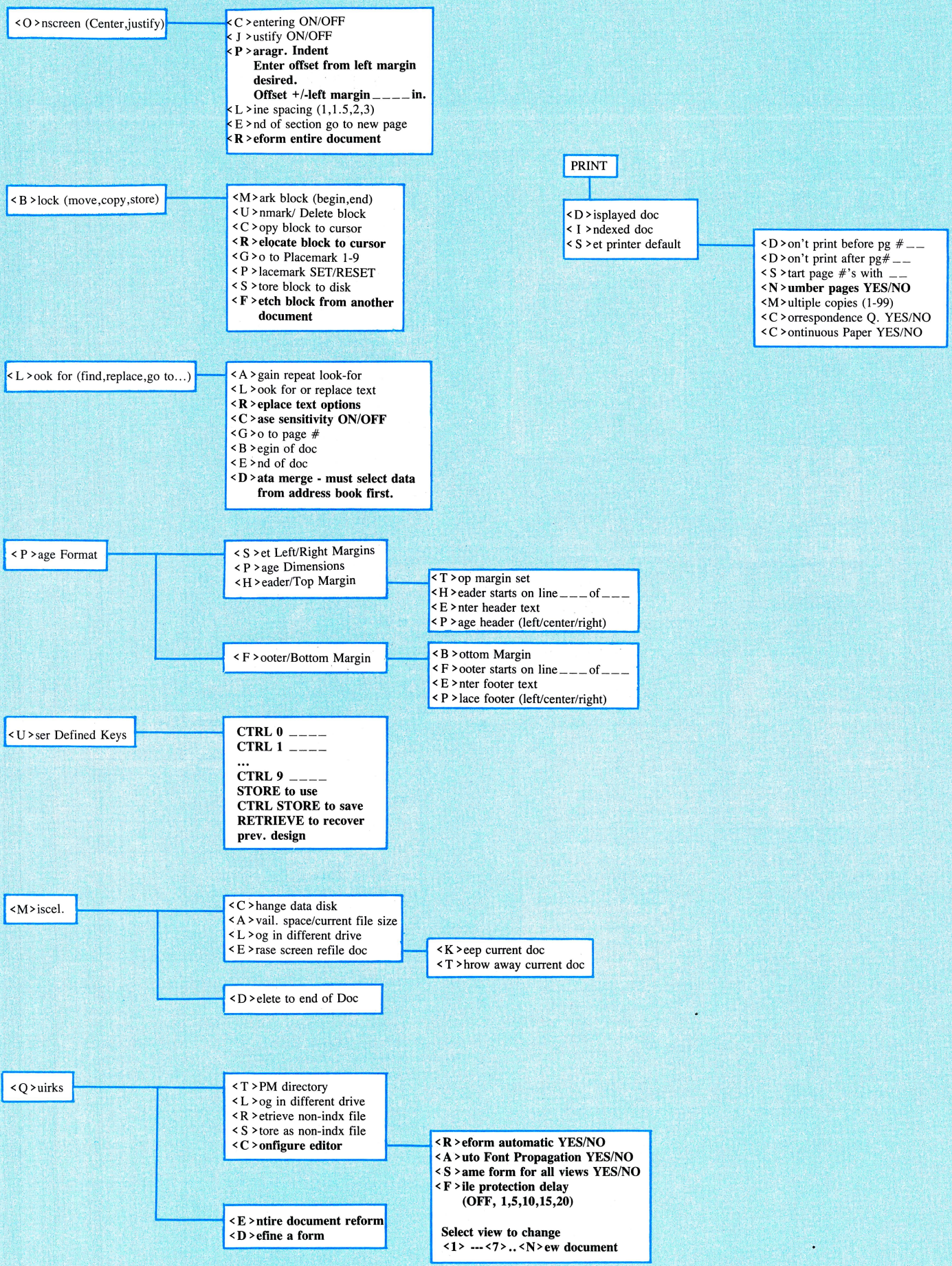


MENU FLOWCHARTS contributed by Edmund F. Hobart, (Troy, MI).

VALDOCS CARDFILE MENUS



VALDOCS EDITOR MENUS



<H>elp with using this spreadsheet
<O>n-screen formatting
<C>alculations and functions
<V>iew windows
<L>ook-for positions, names
<B>lock (move, copy, insert, etc.)
<U>ser defined commands
<M>iscellaneous

<H>elp with using this spreadsheet

<O>n-screen formatting

<G>lobal format (all positions)
<C>olumn format (current column)
<R>ow format (current row)
<F>ormat current position
<W>idth of columns
<B>lock of cells format
<U>nformat current (none)

<C>alculations and functions

	<A>lignment (L, C, D, or R)	__D__
<G>lobal	<D>ollar sign	ON/OFF
<C>olumn	<P>ercent sign after number	ON/OFF
<R>ow	<S>cientific notation	ON/OFF
<F>ormat	<N>umber of decimals (or blank)	ON/OFF
	<M>inus numbers (L CR DR () R)	L
	<C>ommas in numbers (xxx,xxx)	ON/OFF
	<W>rite-protection of contents	ON/OFF

<B>lock Block to format _____ (ex. A1:H23)

Please enter a Formula, OR press Down-arrow for options, OR Up-arrow for Pointer math. Press RETURN when done.
Formula:
A1= _____

Please select an option
A1= _____
<R>ow or Column sum
<A>rithmetic functions
<S>tatistical functions
<L>ogic functions
<T>rigonometric functions

<A>rith	<1> @INT(value or position)	<S>tat	<1> @SUM(range)
	<2> @LN(value or position)		<2> @COUNT(range)
	<3> @LOG(value or position)		<3> @AVE(range)
	<4> @SQRT(value or position		<4> @MAX(range)
	<5> @MOD(dividend, divisor)		<5> @MIN(range)
	<6> @ABS(value or position)		
		<T>rig	<1> @SIN(value or position)
<L>ogic	<1> @AND(list)		<2> @COS(value or position)
	<2> @OR(list)		<3> @TAN(value or position)
	<3> @NOT(logical)		<4> @PI
	<4> @IF(logical, tvalue, fvalue)		<5> @ATAN(value or position)
	<5> @TRUE		<6> @E
	<6> @FALSE		
	<7> @ERROR		
	<8> @NA		

<V>iew windows

<G>o to other window
<S>ynchronize windows
<U>nsynchronize windows
<O>pen windows
<C>lose windows
<T>itle locking

<O>pen <T>op and bottom windows
<L>eft and right windows
<A>ll four windows

<T>itle <C>olumn lock to current column
<R>ow lock to current row
<L>ock both columns and rows
<U>nlock columns and rows

<L>ook-for positions, names

<A>gain (repeat look-for)
<T>ext look-for
<N>umber look-for
<F>ormula look-for
<G>o to position
<B>eginning of spreadsheet
<E>nd of spreadsheet

<B>lock move, copy, insert, etc.

<M>ove row/column
<I>nsert row/column
<D>elete row/column
<B>lank position/row/column/block
<C>opy position/row/column/block
<R>eplicate formula

<M>ove	From row/column____(ex. 2,A) To row/column_____(ex. 99,FE)
<I>nsert <D>elete	Row/column_____(ex. 2,A)
<B>lank	Position/row/column/block_____
<C>opy	From row/column/position/block_____ To position _____ Adjust Formulas? (Y/N) Y
<R>eplicate	From position _____ To position/block _____ Adjust formulas? Y (Y/N)

<U>ser-defined commands

<D>efine/Change a command
<U>se a command

<M>iscel.

<C>hange data disk
<L>og in a different disk drive B0:
<E>rase screen, refile document
<P>ointer motion motion style EDIT/SPRD
<D>elete to end of spreadsheet
<A>utomatic recalculation OFF/ON
<O>rder of recalculation COL/ROW
<R>ecalculate

<E>rase <K>eep the spreadsheet
<T>hrow the spreadsheet away

Up to 63 keystrokes may be stored_____
<A>dd keystrokes
<P>layback keystrokes
<E>dit these keystrokes
<D>elete All keystrokes
<S>tore keystrokes
<C>hange a command
<U>se a command
<M>odify command names

<E>dit
<L>eft pointer move
<I>nsert a character
<D>elete a character
<P>ointer move RIGHT
<R>eplace a character
<A>dd contents of current cell

<C>hange	<1>_____	<5>_____
<U>se	<2>_____	<6>_____
<M>odify a command	<3>_____	<7>_____
	<4>_____	<8>_____

PRINT MENU

Press PRINT to start printing.
<B>lock to be printed: A1:H3
<R>ulers or No rulers R
<C>ompressed or Normal C/N
<W>idth of paper in inches 8

VALDOCS 2 SPREADSHEET MENU

Users Group Newsletters, Magazines, & Publications

See USER GROUP DIRECTORY for complete group addresses

Newsletters

NEWSLETTER NAME (STATE)
USER GROUP (U.G.) NAME

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Ann Arbor Area U.G.

Bay Area Epson Salts (CA)
Bay Area Epson Salts

Bits 'N Bytes (NM)
Albuquerque Epson Users

Byte Sigh (CA)
Epson U.G. of Orange City

CAEUG (IL)
Chicago Area Epson U.G.

Central Kansas Epson Newsletter (KA)
Central Kansas Epson U.G.

Coastal Maine Newsletter (ME)
Coastal Maine Epson U.G.

Cursor News (CA)
Cursor Club

DUNE (IN)
Duneland Epson U.G.

ECCO-GRAM (VA)
Epson Capital Computer Organization

Empire Epson Newsletter (NY)
Empire Epson U.G.

ENCOMPASS (NC)
Raleigh Area Group Epson (RAGE)

ENMUG Newletter (NY)
Epson North Metro Epson U.G.

EpNews (MO)
Kansas City Epson U.G.

Epson Dispatch (VA)
Hampton Epson Epson U.G.

Epsonite (PA)
Matric QXers N/W PA U.G.

Epson Pioneer (VA)
Epson Group/Richmond

EPS'N-LINK (Canada)
Epson Club of Toronto

Epson Lifeboat (PA)
National Epson U.G.

Epson Musket (MA)
Epson Minutemen U.G.

Epson Salts (WA)
Epson Salts of Washington

EpsonNotes (CO)
Mile High Epson U.G.

Epsonians (FL)
Epsonians of N.E. Florida

Epson Tips (NY)
Finger Lakes Epson U.G.

EpSunCoast (FL)
Suncoast Epson U.G.

Epson Users of San Diego Newsltr.(CA)
Epson Users of San Diego

Epson User International (England)
Epson International U.G.

EPUG (OR)
Emerald Epson U.G.

E.T. Phones Home (TN)
E.T. Epson U.G. of Tennessee

The Foothill Fixit (CA)
The F.E.U.G

Flea Byte (FL)
Fort Lauderdale Epson Association

Green Country Newsletter (OK)
Green Country Epson U.G.

Help Key (CA)
Epson Computer Club of America

High Desert Epson Users Newsltr.(CA)
High Desert Epson U.G.

Hi-Society (TX)
Houston QX-10 Users Society

Indy Megabit (IN)
Indy Epson U.G.

MAZE (NY)
Long Island Epson Users

MEUG (TX)
Metroplex Epson U.G.

QHX (IL)
Epson Computing Group

QUE News (NY)
QX10 Users Ensemble Que

QUIRKX (CA)
Ventura County Epson Users

QX Menu (AK)
QX-10 User of Anchorage

QX Monitor (NC)
Piedmont Epson U.G.

QX News (KS)
Topeka QX Club

QXTension (PA)
Greater Pittsburg Epson U.G.

QX-Tra (PA)
Philadelphia Epson U.G.

Scratchpad (OR)
Portland Epson U.G.

SEMEO News (MN)
South Eastern Minnesota Epson U.G.

SEUG'L News (FL)
Sarasota Epson U.G. Latest News

Submit File (FL)
Miami Area Epson U.G.

Synergy (MN)
Epson Users of Minnesota

TUGBOAT(CA)
Reseda Epson U.G.

Voice E.T.C. (TN)
East Tenn Computerists

Will Advise (MI)
South East MI Epson U.G.

WISE (WI)
Wisconsin Epson U.G.

Magazines & Publications

Epsilog
Epsilon
Postfach 185
CH-8704 Herrliberg-ZH
(Monthly in German)

EpsonConnection
EpsonConnection, Ltd.
P.O. Box 14027
Detroit, MI 48214
(Monthly)
313-822-0090

Epson Today
C-Way Promotions Ltd.
P.O. Box 287
West Hill, Ontario
Canada M1E 4R5
416-495-9978

Epson World
Camden Communications, Inc.
P.O. Box 250
Highland Mill
Camden, ME 04843
(Quarterly)
207-236-4365

Geneva News
Camden Communications, Inc.
(monthly PX-8 newsletter)
See Epson World above

PCMS News
Portable Computing Newsletter
P.O. Box 1898
Babson Park, MA 02157
617-239-5067

The Rising Star
Rising Star Industries, Inc.
25500 Hawthorne Blvd., Suite 2000
Torrance, CA 90505
213-373-9112

Valworld Gazette
Don and Carole Terp Editors
5140 Appletree Dr.
Roanoke, VA 24019
(Bi-monthly)
703-342-9599

BOOKS

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EPSON PRINTERS FOR BUSINESS WRITERS
THE EPSON CONNECTION: IBM PC
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EPSON PRINTERS FOR WRITERS
THE EPSON CONNECTION: APPLE
EPSON PRINTERS FOR ACCOUNTANTS
MEDICAL OFFICE APPLICATIONS USING YOUR EPSON
EPSON PRINTERS: TIPS & SECRETS

Advanced dBase II User's Guide
Prentice-Hall, Inc.

CompuServe Information Service Users Guide
CompuServe Incorporated

CP/M Assembly Language Prog.
Spectrum Books

CP/M Handbook, The
Sybex

CP/M Primer
Howard W. Sams

CP/M Simplified
Weber Systems

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Osborne/McGraw Hill

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Epson Printer User's Handbook 9.95
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Epson QX-10 User's Guide
Scott, Foresman and Company

Everyman's Database Primer 19.95
Ashton-Tate

Get Started
Phoenix Publications

Guide to Valdocs
Rising Star Industries

Graphics for Epson Printers 19.95
Reston Publishing Company

How to Get the Most Out of CompuServe 14.95
Bantam Books

HX-20 Technical Reference Manual
Epson America, Inc.

Instant Access Guide: Portable WordStar for the PX-8 16.95
Bantam Computer Books

Instant Access Guide: Portable Scheduler for the PX-8 16.95
Bantam Computer Books

MSDOS & CPM Software for Your Epson: A Directory and Review 21.95
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Hayden Book Company

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Reston Publishing Company

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Rising Star Industries

Programmer's CP/M Handbook
Osborne/McGraw Hill

Programmer's Guide to CP/M
Microsystems Press

Programming the Z80
Sybex

QX-10 Technical Troubleshooting
Epson America, Inc.

QX-10 Tutorial 14.95
Magic Cursor Computer Center

Soul of CP/M 18.95
Howard W. Sams

Systems Essential Manual for the PX-8 14.95
Epson America, Inc.

System Programming Under CP/M-80
Reston Publishing Company

Continued on page 69

Company Address Directory

The following is a list of companies who supply products for you, the Epson user. The EpsonConnection would like to give particular thanks to those businesses listed with a ☼ for their support through advertising. Be sure to consider them in the future.
* Indicates Companies who no longer produce software for Epson CP/M computers.

A

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Roanoke VA 24036
703-344-6818

APS
90-100 Brighton Road
Surbiton Surrey England

ARCOM
45B Princess Road
Branksome Poole Dorsett England

Abacus Business Systems
50 Market Street
Saddlebrook NJ 07662
201-843-0314

Able Data Software, Inc.
2nd Floor, 1260 Hornby Street
Vancouver, B.C. Canada V6C 1W2

Addison-Wesley Publishers
Jacob Way
Reading MA 01760
617-944-3700

Advanced Marketing Concepts
19301 Ventura Boulevard, Ste. 2
Tarzana CA 91356

Advanced Micro Systems
26188 Adamer Rd.
Calabasas CA 91302
818-880-4670

☼**Advanced Micro Techniques**
12991 E. Hillsdale Blvd., Ste. 209
Foster City CA 94404
415-349-9336

☼**Advent Products Inc.**
3154 E. La Palma Ste. F
Anehiem CA 92806
714-630-0446

Ag-Ware
P.O. Box 1503
Kearney NE 68847
308-234-9538

Aldine Paper Company
315 Park Ave. South
New York NY 10010
212-505-1000

Alpha Computer Software
4 Irvine Row
Carlisle PA 17013
717-245-2457

Alpha Software Corporation
30B Street
Burlington MA 01803
617-229-2924

☼**Alpine Data Services**
635 Main Street, Nassau Bldg.
Montrose CO 81402
303-249-1400

American Micro Products, Inc.
705 North Bowser
Richardson TX 75081

☼**American Small Business Computer**
118 South Mill Street
Pryor OK 74361
918-825-4844

American Tourister
Special Products Division 91 M.
Warren RI 02885

American Training Int., Inc.
12638 Beatrice St.
Los Angeles CA 90066
213-823-1129

Ameristar Corporation
1205 Gilman Ave.
Marietta OH 45750
614-374-2400

Anchor Automation
6913 Valjean Ave.
Van Nuys CA 91406

Anvil Cases, Inc.
Computer Products Division 412
Rosemead CA 91770

Apropos Technology
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Camarillo CA 93010
805-482-3604

Armour Systems, Inc.
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Maitland FL 32751
305-629-0753

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213-410-3977

Artificial Int. Res. Group
921 N. La Jola Ave.
Los Angeles CA 90046
213-656-7386

Ash Medical Systems, Inc.
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West Lafayette IN 47906

Ashby and Associates
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Culver City CA 90230
213-204-5570

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Folsom CA 95630
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Aspen Ribbons, Inc.
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Lafayette CO 80026
303-666-5750

☼**Astro Research, Inc.**
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Corvallis OR 97330
503-758-1132

Awareco
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P.O. Box 695
Gualala CA 95445
707-884-4019

☼**Axonix**
417 Wakara Way
Salt Lake City UT 84108
801-582-9271

B

☼**B & R Software**
P.O. Box 364
Tipton IN 46072?

B.P.A. Computer Systems
London House 14-C High Street
Herts England

☼**BD Software**
P.O. Box 2368
Cambridge MA 02238

BMS
P.O. Box 965
Bolinas CA 94924

BPI Systems, Inc.
3423 Guadallupe
Austin TX 78705
512-454-4677

BV Engineering
2200 Business Way, Suite 207
Riverside CA 92501
714-781-0252

Balcones Computer Corp.
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Austin TX 78731

Bantam Computer Books
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Alexandria VA 22302
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Bibliographic Retrieval Serv.
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617-773-2653

Bizcomp
532 Mercury Drive
Sunnyvale CA 94086

Blue Chip Software
6744 Eton Avenue
Canoga Park CA 91303
818-346-0730

Borland International
4113 Scotts Valley Drive
Scotts Valley CA 95066
408-438-8400

☼**Brian Lomasky**
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Meriden CT 06450
203-237-9272

Broderbund
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San Rafael CA 94901
415-345-6424

Brooksar Data Corp., Ltd.
19 W. 113 Ave., Normandy South
Oakbrook IL 60521
312-964-0660

Brother International Corp.
8 Corporate Place
Piscathaway NJ 08854
210-981-0300

☼**Brown Custom, Inc.**
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Indianapolis IN 46217
317-881-2771

Business Master
1207 Elm Avenue, Suite M
Carlsbad CA 92008
800-521-9277

Business Software
17 Tease Street
Wilbraham MA 01095

Businessoft, Inc.
Century Plaza Building
15 Essex Road
Paramus NJ 07652
201-845-4446

Bytcom, Inc.
2169 Francisco Blvd. Suite H
San Rafael CA 94901

C

cCare, Inc.
Drawer 407
Galliopolis OH 45631

C.M. Mainopt, Ltd.
139 High Street Wootton Basset
Swindon Wilts England

☼**C & C Computers**
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Indian Harbour Beach FL 32937

☼**CDP Inc.**
5151 Miller Rd.
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313-846-1055

CDE Software
948 Tularosa Drive
Los Angeles CA 90026
213-661-2031

CMI
1433 Fullerton Ave.
Addison IL 60101
312-953-1555

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CP Aids
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216-678-9015

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703-491-6502

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London England WC2 E9H

Cedar Tree Software
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Chuck Atkinson Programs
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212-572-9600

Code-A-Phone Corporation
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503-655-8940

Comm 88
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Minneapolis MN 55426

Commodities Quote Graphics
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Glenwood Springs CO 81602
303-945-8686

Communications Research Group
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Baton Rouge LA 70809
504-923-0881

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313-524-9010

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Montreal Quebec H3S 1C1
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CompuServe
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Columbus OH 43220

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800-327-5895

Compusurance, Inc.
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305-665-6617

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Computer Creations
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Computer Peripherals
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Woodland Hills CA 91367
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Computer Power Solutions, Inc.
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Pinellas Park FL 33565
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Comshare, Inc.
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Bethesda MD 20814

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Ann Arbor MI 48104
313-769-3988

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Rowayton CT 06853
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Cryptonics, Inc.
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213-829-9972

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North Bend OR 97459
503-269-7975

D

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Miami FL 33156
305-238-0012

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San Leandro CA 94577
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Denver CO 80203
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716-323-1141

Datapro Research Corp.
1805 Underwood Blvd.
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800-257-9406

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617-491-3393

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744 Nina Way
Warminster PA 18974

Dialogue Information Services
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Palo Alto CA 94304
800-227-1927

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425 Lafayette Road, Suite 301
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Dictronics
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E

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San Jose CA 95131
408-288-8880

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Berkeley CA 94710
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E-Z Flight Software
12021 Wilshire Blvd. Suite 172
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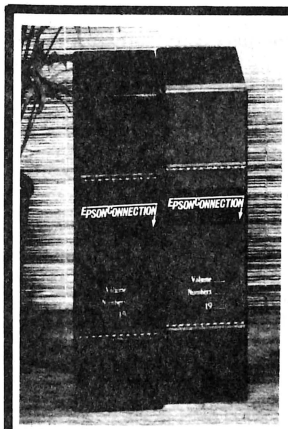

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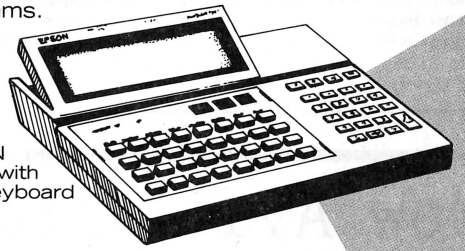

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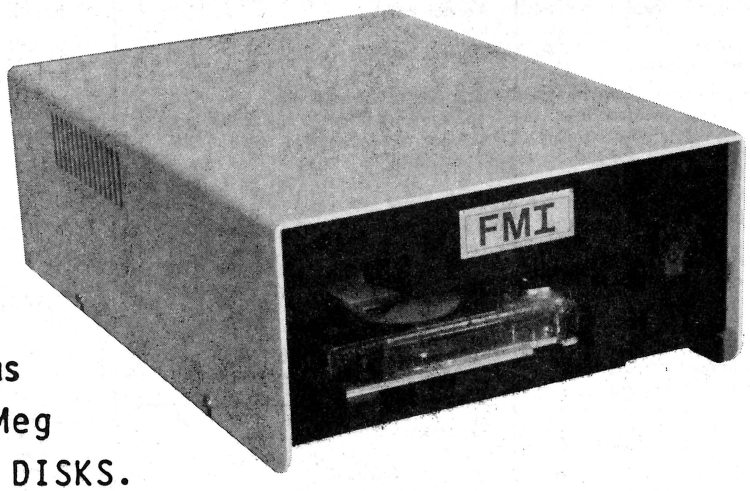

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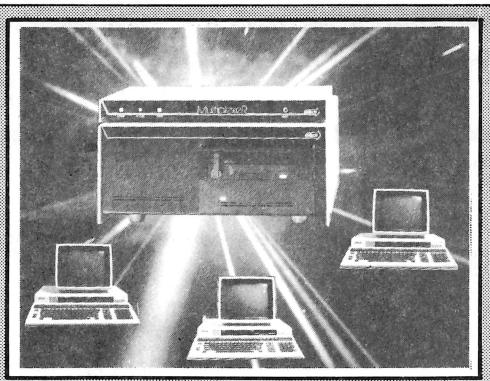

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Epson Sets A New High Resolution Standard for Dot Matrix Printers

Epson introduced two new low-cost 24-pin printers in November which set a new resolution standard in printer technology for dot-matrix printers; The LQ-800 and a wide carriage LQ-1000. These 24-pin dot-matrix printers offer the highest resolution in a dot-matrix printer today. Through unique option cartridges they support Epson extended control codes or emulate IBM or Diablo 630 printers. Both retail for under $1000.

These versatile new printers use specially designed print heads with 24 fine .2mm print wires, divided into two vertical twelve pin rows. Overlapping dots are printed by two rows to form nearly solid lines creating high resolution characters comparable to that of a typewriter. This is done in a single pass of the print head, while high resolution printing usually requires multiple passes which slows the printer down.

In addition to built-in Epson standard control codes, the LQ-800 and LQ-1000 feature option cartridges that provide compatibility with the vast libraries and applications software packages for the popular IBM or Diablo printers. The user simply plugs in the cartridge for the appropriate printer selection and runs the software.

The new Epson Extended Code Option Cartridge ™ supports block graphics character sets patterned after IBM graphics character sets, provides access to font modules and enables additional default settings.

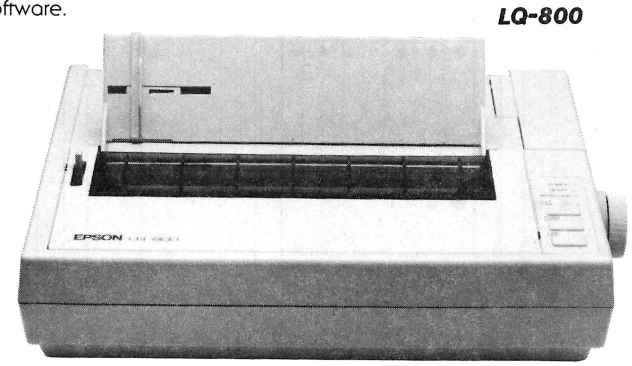
"The LQ-800 and LQ-1000 are the industry's first full-featured24-pin printers priced under $1000," said Andy Leonard, Vice-President of Marketing at Epson. "In addition to providing users with cost effective letter quality output the printers are extremely versatile. The option cartridges give users the capability of easily customizing the printers to meet their own needs."

A single stroke of a soft panel button will let users choose either high speed draft copy at 180 cps, or letter quality copy at 60 cps.

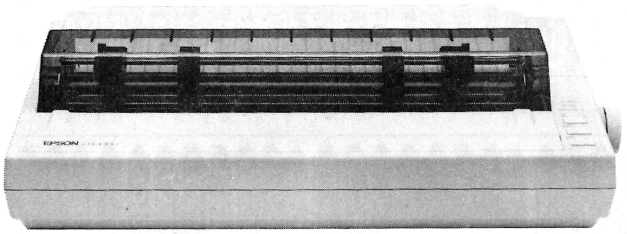
The resolution of up to 360 dots per inch (dpi) horizontally and 180 dpi vertically provides a wealth of graphics possibilities. Besides three built-in fonts, optional font cartridges available include: courier 10, roman 10, arabic, script 12, prestege elite, sans serif 10, sans serif 12, OCR B, and scientific symbols. In addition to price and performance advantages the LQ-800 and the LQ-1000 feature compact design and are light weight.

The LQ-800 retails for $799, and the LQ-1000 for $995. Both models come with built-in serial and parallel interfaces, as well as friction paper feed. There is a built-in 7 KB buffer. Optional cut-sheet and tractor feeders for the LQ-800 are available for $49.95 and $129.95 respectively.

LQ-800



LQ-1000



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COMMAND SEQUENCES
EPSON STANDARD CODES FOR PRINTERS

CODE	FUNCTION	P-40	P-80	LX-80	RX-100+	FX-80+	FX-100+	HI-80***	LQ-1500	SQ-2000	JX-80
	TYPE STYLES										
SO	Enlarged (one line only)	●	●	●	●	●	●	●	●	●	●
ESC SO	Enlarged (one line only)			●	●	●	●	●	●	●	●
DC4	Cancel the above	●	●	●	●	●	●	●	●	●	●
ESC W	Set/cancel enlarged		●	●	●	●	●	●	●	●	●
SI	Condensed	●	●	●	●	●	●	●	●	●	●
ESC SI	Condensed			●	●	●	●	●	●	●	●
DC2	Cancel condensed	●	●	●	●	●	●	●	●	●	●
ESC E	Set emphasised	●	●	●	●	●	●	●	●	●	●
ESC F	Cancel emphasised	●	●	●	●	●	●	●	●	●	●
ESC G	Set doublestrike		●	●	●	●	●	●	●		●
ESC H	Cancel doublestrike		●	●	●	●	●	●	●		●
ESC 4	Set italic		●	●	●	●	●	●	●	●	●
ESC 5	Cancel italic		●	●	●	●	●	●	●	●	●
ESC M	Set elite (12-pitch)			●	●	●	●	●	●	●	●
ESC P	Cancel elite			●	●	●	●	●	●	●	●
ESC —	Set/cancel auto underline		●	●	●	●	●	●	●	●	●
ESC S	Set super/subscript		♦	●	●	●	●	●	●	●	●
ESC T	Cancel super/subscript		♦	●	●	●	●	●	●	●	●
ESC !	Set any combination of styles		♦	●		●	●		●	●	●
ESC p	Set/cancel proportional				○	●	●		●	●	●
ESC x	Set/cancel letter-quality		♦	●	○	○	○	○	●	●	○
ESC k	Select font style				○	○	○		○	○	○
	BIT-IMAGE (DOT GRAPHICS)										
ESC K	Normal density bit image	●	●	●	●	●	●	○	●†	●†	●
ESC L	Dual density bit image	●	●	●	●	●	●	○	●†	●†	●
ESC Y	Fast dual density bit image			●	●	●	●	○	●†	●†	●
ESC Z	Quad density bit image			●	●	●	●	○	●†	●†	●
ESC ^	Nine pin bit image			●		●	●				●
ESC ?	Reassign ESC K,L,Y,Z		♦†	●	●	●	●		●†	●†	●
ESC *	Select any bit image mode		♦†	●	●	●	●	○	●†	●†	●
	REDEFINABLE CHARACTERS										
ESC :	Copy ROM CG into RAM CG			●		●	●		●	●	●
ESC &	Define download character(s)			●		●	●		●	●	●
ESC %	Select ROM/RAM CG			●		●	●	○	●	●	●
ESC 6	Set 128-159 as printable					●	●				●
ESC 7	Set 128-159 as unprintable					●	●				●
ESC I	Set unused codes as printable					●	●				●
ESC m	Set 128-159 as graphics			●	●						
	LINE SPACING										
ESC Ø	Set line space to 1/8"		●*	●	●	●	●	●	●	●	●
ESC I	Set line space to 7/72"			●	●	●	●	●			●
ESC 2	Set line space to 1/6"	●	●	●	●	●	●	●	●	●	●
ESC 3	Set line space to n/216"		●*	●	●	●	●	●	●*	●*	●
ESC A	Set line space to n/72"	●**	●*	●	●	●	●	●	●*	●*	●

	CHARACTER SPACING & JUSTIFICATION										
ESC SP	Set character spacing	●**	♦		○	○	○		●	●	○
ESC $	Set absolute dot position		♦		○	○	○		●	●	○
ESC \	Set relative dot position		♦		○	○	○		●	●	○
ESC a	Select justification mode			●		○	○		●	●	
	PRINTING STANDARD TABLES & FORMS										
ESC C	Set page length		●	●	●	●	●	●	●	●	●
ESC N	Set auto perforation skip			●	●	●	●	●	●	●	●
ESC O	Cancel perforation skip			●	●	●	●	●	●	●	●
VT	Execute vertical tab			●	●	●	●	●	●	●	●
ESC B	Set vertical tabs			●	●	●	●		●	●	●
ESC /	Set VFU channel			●	●	●	●		●	●	●
ESC b	Set VFU positions			●	●	●	●		●	●	●
ESC l	Set left margin		♦	●	●	●	●	●	●	●	●
ESC Q	Set right margin			●	●	●	●	●	●	●	●
HT	Execute horizontal tab		●	●	●	●	●	●	●	●	●
ESC D	Set horizontal tabs			●	●	●	●		●	●	●
ESC e	Set horizontal/vertical tab spacing				●			●			
ESC f	Set skip positions				●			●			
	PRINTER OPERATING COMMANDS										
CR	Carriage return	●	●	●	●	●	●	●	●	●	●
LF	Line Feed	●	●	●	●	●	●	●	●	●	●
FF	Form feed		●	●	●	●	●	●	●	●	●
BS	Backspace			●	●	●	●	●	●	●	●
ESC i	Incremental print mode					●					●
ESC J	n/216" line feed		♦*	●	●	●	●	●	●*	●*	●
ESC j	n/216" reverse feed					●					●
	MISCELLANEOUS/UTILITIES										
ESC R	International character set	●	●	●	●	●	●	●	●	●	●
CAN	Clear print buffer		♦	●	●	●	●		●	●	●
DEL	Clear last character			●	●	●	●	●	●	●	●
DC1	Enable printer					●	●		●	●	●
DC3	Disable printer					●	●		●	●	●
ESC V	Select auto character repeat				○	○	○		●	●	○
ESC #	Cancel MSB control					●	●		●	●	●
ESC)	Force MSB to 1					●	●		●	●	●
ESC =	Force MSB to 0					●	●		●	●	●
BEL	Sound beeper			●	●	●	●	●	●	●	●
ESC @	Initialise printer		●	●	●	●	●	●	●	●	●
ESC 8	Disable paper-end detector			●	●	●	●		●	●	●
ESC 9	Enable paper-end detector			●	●	●	●		●	●	●
ESC U	Select unidirectional print			●	●	●	●		●	●	●
ESC <	Unidirectional (one line)			●	●	●	●	●	●	●	●
ESC s	Select half speed print			●	●	●	●	●	●		●
ESC r	Select print colour							○			●
ESC EM	Operate sheet feeder			○	○	○	○		○	○	

● Standard
○ Optional
♦ P-80X

* Spacing units differ as follows:

MODEL	ESC J	ESC Ø	ESC 3	ESC A
P-80			n/144"	
P-80X	n/180"	1/7.5"	n/180"	n/60"
LQ-1500	n/180"		n/180"	n/60"
SQ-2000	n/180"		n/180"	n/60"

** Range of parameters on P-40 is limited as follows:

MODEL	ESC A	ESC sp
P40	n = 8 or 12	n = Ø or 1

*** The HI-80 printer mode also incorporates other control sequences not supported by any other printer.

† P-80X, LQ-1500 and SQ-2000 can print in 24 pin bit image mode using ESC *.

ESC K,L,Y and Z are 8 pin bit image mode unless reassigned.

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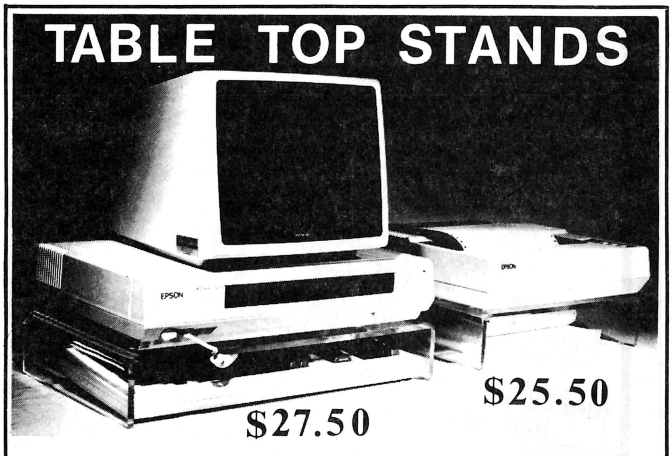

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Word Tech Systems, Inc.
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CP/M, PX-8

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The Retriever 12.50
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HX-20

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Chartech
Techware
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Displaywriter 3
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Docu-Power! 149.00
Computing!
CP/M

E-Zip 97.00
Lovejoy Enterprises, Inc.

Easywriter (Ver. 2.4)
Information Unlimited Software
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Electric Webster 210.00
Cornucopia Software
CP/M, PX-8

FCM
Arrays, Inc.
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FinalWord 300.00
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Key-Mailer
Softkey Software Products, Inc.
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MicroPro International Corp.
CP/M, QXPC, QX-16/MS-DOS

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BOOKS

TPM-II User Guide 29.95
Rising Star Industries

The Epson Book on Personal Computer Communications 16.95
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The Epson Connection: Apple 16.95
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The Epson Connection: IBM 16.95
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The Epson QX-10 Getting Started Book and Workbook
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Bantam Publishing Company

User's Guide to the Epson HX-20
Hayden Book Company

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Epson America Service Hotline
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EpsonConnection Subscription Dept.
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EpsonConnection Advertising Dept.
1-313-822-0472
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RSI Customer Support
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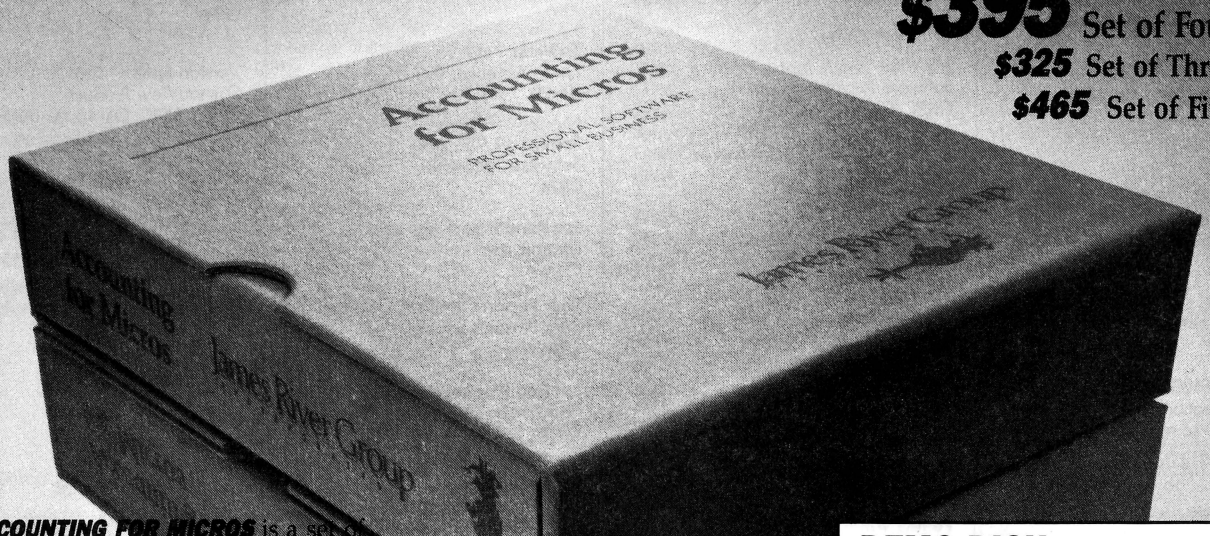

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Allows up to 2,500 customers and 1,000 invoices per month. Invoicing can access Inventory Module. Keeps customer names and addresses. Invoice prints on plain paper or any pre-printed form. Statements can be printed at any time.

INVENTORY $125
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ACCOUNTS PAYABLE $125
Allows up to 500 vendors and 600 invoices/mo. Records invoices and hand-written checks. Prints computer checks on any pre-printed form. Keeps vendor names and addresses.

PAYROLL $125
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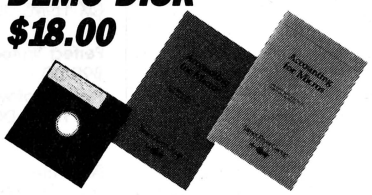

Try all 5 programs above (GL, AR, AP, IN, PR). Order our DEMO DISK for $18.00 (includes shipping). Condensed versions of the programs give you the "feel" of data entry and access. Includes sample reports and instructions. Specify machine.

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The "Catch-All" program. Files any type of information for quick access. Name or subject oriented with 15 lines of notes per name. Use TMAN as a mailing list, filing system, notebook, etc. Can be used alone or with data from our other programs.
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Continued from page 7

Once connected, you must log on. Simply follow the instructions contained on pages 10-11 in your kit. You will be asked to provide your user ID, also known as your PPN (Personal Programming Number), your password, the IntroPak agreement number and IntroPak serial number. Then CIS will ask for your billing information. Once this is taken care of you will be assigned a permanent user ID (PPN) and password. You will then be instructed to use these to gain access to CIS.

The very first time you sign on, those CIS computers will ask you for basic information (screen size and width) allowing them to "talk" to your micro. For the QX-10, QX-16 and Equity your screen size is 80X24, while for the PX-8 it is 80X8. When asked for your terminal type, in all cases the answer will be option 4 from the menu: a CRT. Now, if the telephone number you used was not a local call, you can enter "go phones" and get the more detailed list of phone numbers available. If you can, use a CIS node as opposed to a Telenet or Tymnet one (which incur a $2.00 an hour usage charge).

So far, if you have a local telephone number to call, all you are paying for is a local telephone call. Before going any further we should note that CompuServe has two modes in which it functions. The display, or menu mode, is the first you will encounter. Once into CIS you will be presented with the initial "top" menu offering you, through increasingly more specific menus, the various services available.

CIS has much to offer, and a discussion beyond the basics of operating within EpsOnLine would be too extensive to include in this article.

Next you will be given a brief summary of the commands that are used on CIS, and offered an opportunity to 'tour' the service. Pass up the tour for now, and enter "go epson". This will take you to EpsOnLine. You will encounter the new member menu which looks like this:

```
EpsOnLine

New Member Menu
1 Purpose
2 Forum Administrators
3 Membership Sign-Up
4 Instructions
5 Enter EpsOnLine

0 Exit

Enter choice :
```

Since there is no charge for joining the SIG, you might as well sign up now through #3 (Membership Sign-Up). The only information that you are required to provide to join the SIG is your name. After joining the SIG, you will be presented with its function menu:

```
Function Menu
1 (L)   Leave a Message
2 (R)   Read Messages
3 (CO) Conference Mode
4 (DL) Data Libraries
5 (B)   Bulletins
6 (V)   View Member Directory
7 (SS) Set Sub-topic
8 (OP) Set User Options
9 (I)   Instructions
0 (E)   Exit from EpsOnLine
Enter choice or H for help :
```

SIG menus, and there are many SIGs on CIS, are standard. Once you feel somewhat confident with the SIG commands, you will be quite happy to dispense with the SIG menus. Fortunately, you may customize the SIG to suit yourself. By typing "OP" at a Function Menu prompt you will be presented with two menus which allow you to select such choices as: no menus, not stopping after every message, and so on.

Back to the SIG Function Menu, the one you were presented after entering EpsOnLine. In this article we will discuss only the SIG message base. But be aware that most SIGs are comprised of the following:

1) a message base consisting of messages to and from other members;

2) a data library (DL) containing information and actual software programs which can be downloaded free using one of three error checking protocols available by members, and to which members may contribute their information and public domain programs;

3) a conferencing area (CO) within which any number of members may communicate via their computers in "real time".

EpsOnLine will also feature what is called a "Display Menu", which is actually external to the SIG itself. Here you will find information on: the latest updates of Valdocs; how to subscribe to the EpsonConnection and make use of other services we offer; a complete list of Epson distributors; news on the latest product releases and more.

At the Function Menu prompt, type "**R** <CR>". Then "**T** <CR>" at the next menu and "**N** <CR>" at the next. Time consuming, isn't it? After you get rid of the menus, you will type **RTN** (<R>ead <T>hread <N>ew [messages]), and accomplish the same thing in a fraction of the time. With your command you will read the first (earliest and also newest to you) message still remaining in the message base.

Older messages are deleted as new ones are added. EpsOnLine's message base is about 600 in number, so it takes a while, at this point, for a message posted today to scroll off the base.

At the end of the message, you will be presented with another menu:

```
Read Action Menu
1 (RA)  Read again
2 (N)   Read next message

4 (RE)  Reply with current subject
5 (UA) Reply with new subject

7 (T)   Return to Function Menu
Enter choice or H for help :
```

This menu allows you to <RE>ply to the message, <T>op (return to the first, main SIG menu), Use [the] Address <UA> of the message, provide another subject or <R>ead [the message] <A>gain (RA). Item numbers 3 and 6 are reserved for future use and are missing from this menu.

Take a few seconds and look at the heading on the message. The first line contains the message number and the SIG section to which it has been posted; the date and time the message was posted (your local time) is in the second line. The next line contains the subject of the message. Don't be surprised if the stated subject is not the same as that contained in the body of the message. Such is a result of the simplicity the SIG message base software provides to users. It is simplicity itself to <RE>ply to a message catching your eye, and the subject often varies from the original.

```
#: 22246 SO/TechTalk
    31-Oct-85  21:07:16
Sb: #22235-#Protocol
Fm: David Kozinn(CP-MIG) 76703,565
To: Sysop Allen Howell 76703,4051 (X)

*** There is a reply:
        22263
```

If you see a #xxxxxx in the Sb: line, that message is a <RE>ply to that message number in the Sb: line. Want to read the message which prompted this reply? Type <RP> for <R>ead <P>revious [message] at the Message Response prompt following the message.Note that RP is not a selection on the disposition menu. There are several commands which are not listed on a menu, and you will want to obtain a list of them for reference. We will explain how to capture a list of the commands shortly.

Enter a carriage return **<CR>** or "**N** <CR>" at the Message Action prompt and you will be presented with the next message. Since you are reading message threads (remember the RTN command?), CIS will either give you the next message in chronological order or the REply to the message you just read. If there is a reply, at the end of the message you read, the CIS software will tell you so. Such are message threads. Nifty, eh? Read a few more messages, then return to the main

CORRECTION

This is in reference to the "QX On Campus" sidebar, forth paragraph, on page 19 in the October 1985 issue.

St. Mary's College of Maryland is located in St. Mary's City, MD. The College is state funded and is about 70 miles S.E. of D.C and 100 miles south of Baltimore. There is an Epson Users Group, located on campus, in which faculty and students both participate. Gene Carter manages the College Bookstore and is currently the SYSOP in the users group.

SIG menu by entering a "**T**" at a Message Action prompt.

Now close your capture buffer, and then open another called SIG.INS. Go back into Terminal mode and hit <CR> once to insure you are at the Function Menu Prompt. Enter "I", and a list of the commands that are available will scroll onto the screen - and into your 'SIG.INS' file. When this is finished, you will want to close your capture buffer again.

Now we want to leave our pre-prepared introduction message. Using Valdocs to upload the message, select item 1 (L) to leave a message. At the prompt TO:, enter "All". At the prompt SUBJECT:, enter "New Member". When the screen says "Enter your message...." and shows a '1' for the first line, press the <RETRIEVE> key. You will be presented with a menu asking for which type of file, so you first select <I>ndexed and then select <E>ditor from the next menu. Next select the appropriate file as you would to edit it, using <RETRIEVE> and/or <INDEX>. At this point the MAIL program takes over and as it SENDS the message to CIS, it types it on your screen at the same time.

End your message by entering two <CR>s. You will then be prompted for disposition of the message you have composed. Type "S0<CR>" and <S>tore your message to Subtopic <0>. You will be told that message #xxxxxx has been stored. Want to <R>ead it? Type "R;1;xxxxxx" for <R>ead <I>ndividually [message number] xxxxxx.

Let's say instead of Valdocs you are using a version of the popular MDM series of programs, like MDM740 or EPXMD3. To upload our prepared message to EpsOnLine you would hit the control (CTRL) and 't' keys simultaneously. You should then be prompted for the name of the file you desire to send. Respond with "intro.mes" followed by a carriage return. Answer <N>o to the question about time delays. You should see your message being sent. As above, you should end your message with two carriage returns and follow the same procedure as above for storing it in the message base.

Congratulations! Now if you feel ready to dispense with the menus you can. If you want to read some more messages, try the **RR** (<R>ead [in] <R>everse) command. Want to read messages on the subject Valdocs? Use **RS;S;Valdocs;1** (<R>ead <S>electively, messages with the <S>ubject, Valdocs, beginning with message #1) command. You should now have a grasp of how to navigate around in EpsOnLine's (or any SIG's) message base. We use the message base to pick up lots of information and get acquainted with the other members.

Now sign off the system by entering "**off**". Use your word processor to 'edit' the "SIG.INS" file deleting all the unnecessary information and then print out what is left so that you will have a permanent record. Again if you are using QXMDM, then be sure to type in WRT, so your file is written to disk, before exiting to CP/M. Keep this printout handy whenever you sign on to EpsOnLine. You can also print out your original capture buffer file (which from this initial logon, may not contain too much that you will want to retain).

Now for a few more quick hints on how to optimize your use of EpsOnLine. The next time you sign on, open a capture buffer called "Users", and at the "Function" prompt (when in EpsOnLine) enter a "U". A list of those who have entered the SIG will scroll onto the screen and into your buffer. Let it go for a couple of minutes and then stop it by entering "CTRL-C". Now you can use an edited version of this list to find someone's PPN if you need to address a message directly to a person without replying to another message.

To use CIS most effectively, your communications software needs to be optimally configured for the system. Below are some tips on setting variables for the most common public domain software currently in use.

In MEX:

```
STAT XON ON          <-a "must"
STAT XLINE OFF
STAT WCHAR 0
STAT WECHO 0
CLONE MEX.COM        <-save the changes
```

In MDM740 or EPXMD3, etc.:
TXO

Answer "Y" to "Xoff testing?"
Answer "N" to "wait for XON after <cr>".

A Capture Buffer

A buffer can be considered a holding tank of memory in your computer. A good communications program will include the ability to "open a buffer" which means that the next information to be received, or seen on your screen will all be kept in memory and stored to disk until this gets full, or you otherwise erase it (like by turning off your computer).

Initiation of a capture buffer with Valdocs is easy - just hit the "STORE" key while in MAIL. With the MDM series of programs, capture buffer initialization is accomplished by first invoking the software's command prompt by entering "control-e" from terminal mode. Then enter "t filename" and a carriage return to return to terminal mode. Now you can turn your capture buffer on and off by entering "control-y" (to turn it on) and "control-r" (to turn it off). If you are using MEX (Modem EXecutive program), you would follow the same procedure as with the MDM software to initiate the buffer, which will then turn on automatically when you return to the terminal mode.

CompuServe Assistance and Charges

The Customer service number at CIS is (800) 848-8990 for customers calling outside Ohio, and within Ohio (614) 457-8650. Customer help is available for those who are unable to log onto the system, or need to report an on-line system problem. The representatives are available from 8 a.m. to midnight, Monday through Friday, and 2 pm to midnight on weekends E.D.T./E.S.T.

Other inquiries, messages, orders for products should be sent on-line via FEEDBACK.

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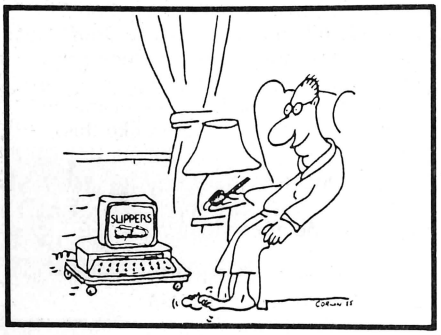

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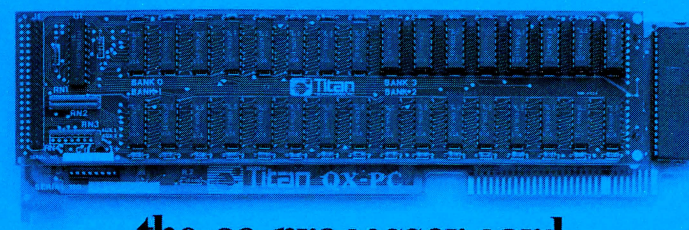

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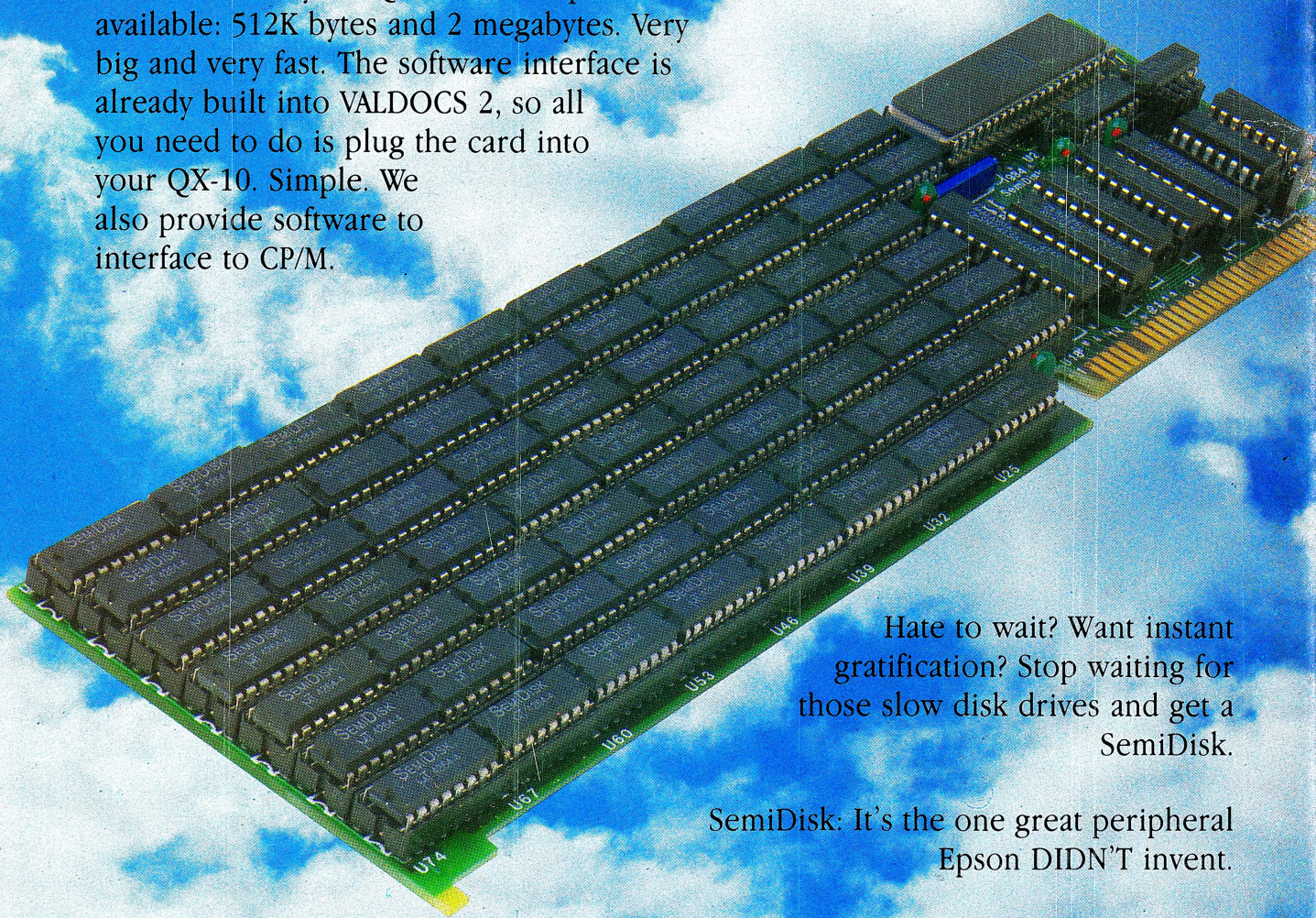

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